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SPACE SHUTTLE ORBITER TRIMMED CENTER-OF-  
GRAVITY EXTENSION STUDY

VOLUME II - EFFECTS OF CONFIGURATION MODIFICATIONS ON  
THE AERODYNAMIC CHARACTERISTICS OF  
THE 140 A/B ORBITER AT TRANSONIC SPEEDS

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SEPTEMBER 1976

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STUDY: VOLUME 2: EFFECTS OF CONFIGURATION  
MODIFICATIONS ON THE AERODYNAMIC  
CHARACTERISTICS OF THE 140 A/B ORBITER AT

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SPACE SHUTTLE ORBITER TRIMMED CENTER-OF-  
GRAVITY EXTENSION STUDY: VOLUME II - EFFECTS OF CONFIGURATION  
MODIFICATIONS ON THE AERODYNAMIC CHARACTERISTICS OF  
THE 140A/B ORBITER AT TRANSONIC SPEEDS

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SUMMARY

Transonic aerodynamic tests were conducted in the Langley 8-Foot Transonic Pressure Tunnel to determine the effects of fuselage forebody and wing fillet modifications on the longitudinal and lateral-directional characteristics of a 140A/B Space Shuttle Orbiter configuration.

The effects of the two forebody modifications on the longitudinal and lateral-directional aerodynamic characteristics were minimal; some slight increases in lift were produced by the modifications as were slight destabilizing pitching moments. Significant destabilizing longitudinal stability levels were produced by both of the planform fillet modifications. Favorable effects in lateral-directional stability characteristics were produced by an 85° swept fillet modification. Both the large and small canards tested produced significant reductions in longitudinal stability levels, with the largest canard, C<sub>4</sub>, having the largest destabilizing effect. The lateral-directional characteristics of configurations incorporating the canards were improved over those of the baseline orbiter.

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## INTRODUCTION

The longitudinal center-of-gravity range of the Space Shuttle Orbiter for trimmed flight during entry, approach, and landing is quite limited. This puts a considerable constraint on the allowable mass distribution of shuttle payloads. In an effort to extend the orbiter center-of-gravity envelope, a study was undertaken at the Langley Research Center into the feasibility of developing simple, "bolt-on" modifications. Modifications which were studied included changes in fuselage nose shape and wing fillet planform and the addition of fixed canard surfaces. Systems design analyses were undertaken to determine the weight penalties. Aerodynamic heating tests and analyses provided information on the impact of the modifications on thermal protection system requirements. Wind-tunnel force and moment tests were conducted across the speed range to assess the effectiveness of the modifications in extending the center-of-gravity envelope and the influence of the modifications on flight characteristics. Hypersonic aerodynamic characteristics of the modifications are presented in reference 1.

The purpose of this paper is to present the effects of modifications on the subsonic and transonic aerodynamic characteristics of the orbiter. The investigation was conducted in the Langley 8-Foot Transonic Pressure Tunnel at Mach numbers from 0.35 to 1.20. The angle-of-attack range extended from approximately  $-3^{\circ}$  to  $23^{\circ}$  at sideslip angles of  $0^{\circ}$  and  $5^{\circ}$ .

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## SYMBOLS

The longitudinal aerodynamic data are presented about the stability system of axes while the lateral-directional aerodynamics are presented about the body axes. All the aerodynamic data contained herein were nondimensionalized using the same values for wing reference area, span and mean aerodynamic chord. The moment reference point is located at 65 percent of the fuselage reference length, i.e., 21.38 cm (8.42 in.) aft of the model nose. Values are given in both SI and US Customary Units. When two symbols are listed for an aerodynamic coefficient, the second symbol applies to the computerized tabulation of coefficients in the appendix.

A	aspect ratio
b	wing span, 23.79 cm (9.37 in.)
c	mean aerodynamic chord, 12.06 cm (4.75 in.)
$C_A, CA$	axial force coefficient, $\frac{\text{Axial force}}{\rho_\infty S_{\text{ref}}}$
$C_D, CD$	drag coefficient, $\frac{\text{Drag}}{\rho_\infty S_{\text{ref}}}$
$C_L, CL$	lift coefficient, $\frac{\text{Lift}}{\rho_\infty S_{\text{ref}}}$
$C_m, CM$	pitching moment coefficient, $\frac{\text{Pitch}}{\rho_\infty S_{\text{ref}} c}$
$C_N, CN$	normal force coefficient, $\frac{\text{Normal force}}{\rho_\infty S_{\text{ref}}}$
$C_R, CBL$	rolling moment coefficient, $\frac{\text{Roll}}{\rho_\infty S_{\text{ref}} b}$
$C_\eta, CYN$	yawing moment coefficient, $\frac{\text{Yaw}}{\rho_\infty S_{\text{ref}} b}$
$C_Y, CY$	side force coefficient, $\frac{\text{Side force}}{\rho_\infty S_{\text{ref}}}$
$C_{\alpha_B}$	$\left( \frac{\Delta C_L}{\Delta \beta} \right) \beta = 0^{\circ}, 5^{\circ}$ : per degree

$$C_{n_\beta} \left( \frac{\Delta C_n}{\Delta \beta} \right) \quad \beta = 0^\circ, 5^\circ, \text{ per degree}$$

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$$C_{Y_\beta} \left( \frac{\Delta C_Y}{\Delta \beta} \right) \quad \beta = 0^\circ, 5^\circ, \text{ per degree}$$

L/D lift-drag ratio

$l_{ref}$  fuselage reference length, 32.77 cm (12.90 in.)

M Mach number

$q_\infty$  free-stream dynamic pressure, Newtons per meter<sup>2</sup>  
(lb/ft<sup>2</sup>)

$R_\infty$  free-stream Reynolds number based on  $l_{ref}$

$S_{ref}$  wing reference area, 0.02 m<sup>2</sup> (0.27 ft<sup>2</sup>)

$x_0, y_0$  model stations, cm (in.)

$\alpha$  angle of attack, deg

$\beta$  sideslip angle, deg

$\delta_{BF}$  body flap deflection angle (positive for trailing edge deflected downward), deg

$\delta_e$  elevon deflection angle (positive for trailing edge deflected downward), deg

$\delta_{SD}$  split rudder flare angle (positive for trailing edges deflected outboard), deg.

#### Model Configuration Components:

B<sub>1</sub>WVS<sub>0</sub>EF baseline 140 A/C orbiter configuration

B<sub>1</sub> baseline fuselage forebody

W baseline wing (outboard panel) having a leading-edge sween of 45°

V baseline vertical tail

S<sub>0</sub> baseline planform fillet

E baseline elevon

- F baseline body flap
- B<sub>2</sub> cambered fuselage forebody modification having identical planform to B<sub>1</sub>
- B<sub>4</sub> enlarged planform and cambered fuselage forebody modification
- S<sub>1</sub> planform fillet modification having a reduced leading-edge sweep angle (76.2°)
- S<sub>2</sub> fillet modification having planform geometry similar to a strake
- C<sub>3</sub> small canard with flat plate airfoil sections
- C<sub>4</sub> large canard with flat plate airfoil sections

## APPARATUS AND TESTS

### Model

Geometric details of the model used in the wind tunnel investigation are shown in figure 1 and table I with model photographs in figure 2. The baseline configuration (fig. 1(a)) was an 0.01-scale model of the Rockwell International 140A/B Space Shuttle Orbiter configuration geometrically described in reference 1. The model had a removable forebody and removable components in the wing planform fillet region which allowed geometry modifications. The modifications shown in figures 1(b) to 1(e) consisted of two fuselage forebody configurations,  $B_2$  and  $B_4$ , two wing planform fillet configurations,  $S_1$  and  $S_2$ , and two canard configurations,  $C_3$  and  $C_4$ .

The  $B_2$  forebody modification exhibited increased ramping of the fuselage nose lower surface (negative camber) while maintaining the baseline orbiter fuselage cross-section distribution and, hence, the projected planform area. The increased lower surface slopes were accompanied by an upward displacement of the nose cap of 0.508 cm (0.200 in.) and a smooth fairing of the cross sections, from the nose vertical origin aft to an  $x_0$  station of approximately 10.16 cm, which terminated the forebody modification. The  $B_4$  modification exhibited cross section modifications which produced increased forebody length and span (the nose cap originated at  $x_0 = 5.309$  cm and the  $B_4$  forebody terminated at an  $x_0$  station of approximately 10.16 cm) where it faired with the baseline fuselage.

Planform fillet modification  $S_1$  shown in figure 1(d), intersected the fuselage at approximately the same point as baseline fillet  $S_0$

( $x_0 = 13.44$  cm) but exhibited a lower leading-edge sweep angle of  $76.2^\circ$ . The resulting intersection of the  $S_1$  fillet configuration with the orbiter reference wing panel was further outboard than for the baseline ( $S_0$ ) fillet. The leading edge of the  $S_2$  fillet produced a planform shape very similar to a strake (fig. 1(d)). Fillet  $S_2$  had a leading-edge sweep angle of  $67.4^\circ$  extending outboard to  $y_0 = 3.584$  cm and  $x_0 = 12.929$  cm. At this point the fillet leading-edge sweep increased to  $85^\circ$  and the effective fillet intersection point with the outboard wing panel was the same as for the baseline fillet ( $S_0$ ) intersection. Both fillet modifications exhibited streamwise sections which were faired with the outboard wing panel and had leading-edge radii identical to those of the baseline fillet,  $S_0$ .

Canards  $C_3$  and  $C_4$  (fig. 1(e)) had flat plate sections with rounded leading edges and sharp trailing edges. The leading-edge sweep angles for canards  $C_3$  and  $C_4$  were  $55.0^\circ$  and  $54.7^\circ$ , respectively. The trailing edge of canards  $C_3$  and  $C_4$  were formed by circular arc segments having radii of 5.245 cm and 6.217 cm, respectively.

#### Tests

The investigation was conducted in the Langley 8-Foot Transonic Pressure Tunnel at Mach numbers from 0.35 to 1.20. Free-stream Reynolds numbers (based on fuselage reference length) for the investigation ranged from  $2.20 \times 10^6$  at  $M = 0.35$  to  $4.54 \times 10^6$  at  $M = 1.20$ . Test angles of attack were varied from about  $-3^\circ$  to  $23^\circ$  at  $0^\circ$  and  $5^\circ$  sideslip. An internally mounted six-component strain gage balance was used to measure aerodynamic forces and moments acting on the model. Corrections have been

applied herein to the angles of attack and sideslip to account for sting and balance deflections produced by aerodynamic loads on the model. To avoid shock impingement on the model, no data were obtained between Mach numbers of 0.98 and 1.20.

Transition strips were located behind the leading edges of all model components using 0.25 cm wide bands composed of carborundum grains. The following tabulation shows the nominal grain diameters and the locations of the upstream edge of the transition strips for each model component.

<u>COMPONENT</u>	<u>NOMINAL GRAIN DIAMETER, CM</u>	<u>STRIP LOCATION (MEASURED PERPENDICULARLY FROM COMPONENT LEADING EDGE, CM)</u>
Wing	0.0124	1.27
Fuselage forebody	0.0124	3.05
Vertical tail	0.0124	1.27
Planform fillets	0.0150	1.27
Canards	0.0124	1.27

## RESULTS AND DISCUSSION

Aerodynamic data obtained in the present study are tabulated by run number in the appendix which also includes a Data Set/Run Number Collation Summary to expedite the location of data for a particular configuration and test condition.

### Longitudinal Aerodynamic Characteristics

The longitudinal aerodynamic characteristics for the baseline orbiter configuration,  $B_1 WVS_0 EF$ , are shown in figure 3. Effects of the various configuration modifications are presented in figures 4 to 11 and may be indexed as follows:

Effect of modification(s):	Figure
$B_2$ forebody	4
$B_4$ forebody	5
$S_1$ fillet	6
$S_2$ fillet	7
$C_3$ canard	8
$C_4$ canard	9
$B_2$ and $S_2$	10
$B_2$ and $C_3$	11

Effects of fuselage forebody modification.— The  $B_2$  forebody modification produced a slight increase in lift over the test angle-of-attack range at Mach numbers below 0.98 as shown in figure 4. This effect is attributed to the negative camber increment of the  $B_2$  forebody. Only very insignificant effects are shown for  $B_2$  at  $M = 0.98$  and 1.20 (i.e., figs. 4(d) and 4(e)).

The primary effect of forebody  $B_4$  (fig. 5) was the introduction of a small destabilizing increment in longitudinal stability which was present over the speed range of the investigation. Incremental lift changes for  $B_4$  were in general smaller than for  $B_2$ .

Effect of planform fillet reshaping. - Replacing the baseline fillet,  $S_0$ , with planform fillet  $S_1$  resulted in increased  $C_{L\alpha}$  and a significant reduction in longitudinal stability (fig. 6). Also, attributable to the  $S_1$  modification, were increased values of  $(L/D)_{max}$  at Mach numbers from 0.8 to 1.2.  $(L/D)_{max}$  at  $M = 0.35$  is reduced by about 0.25 for the  $S_1$  configuration.

Some longitudinal aerodynamic effects of adding fillet  $S_2$  are indicated in figure 7 by the incremental increase in lift shown for the configuration with  $\delta_e = 0^\circ$  and  $\delta_{BF} = -11.7^\circ$ . This incremental lift increase on the fillet produces a reduction in longitudinal stability and a general reduction in pitching moment coefficients at zero lift. The  $(L/D)_{max}$  increase for  $0.8 \leq M \leq 0.98$  noted for the  $S_2$  fillet configuration is similar to those shown for the  $S_1$  configuration.  $(L/D)_{max}$  at  $M = 0.35$  is reduced by about 0.25 for configuration  $B_1WVS_2EF$ .

Effects of Canards. - Addition of the small canard,  $C_3$ , (fig. 8) produced a significant destabilizing pitching moment shift and an increase in pitching moment at zero lift over the Mach range of the investigation. Only slight changes in L/D are attributed to the canard addition at  $0.8 \leq M \leq 1.20$ . A reduction in  $(L/D)_{max}$  of approximately 0.2 was noted at  $M = 0.35$ .

The large canard,  $C_4$ , produced a larger destabilizing pitching moment than did  $C_3$  (i.e., fig. 9). Increases in lift curve slope were noted for the  $C_3$  and  $C_4$  configuration at Mach numbers of 0.9 and 0.98. A 0.3 reduction in  $(L/D)_{max}$  is attributable to the addition of  $C_4$  at  $M = 0.35$  with much smaller variations noted at the higher Mach numbers of the study.

Effect of  $B_2$  in combination with  $S_2$  and  $C_3$ . - Tests were conducted with the  $B_2$  forebody modification in combination with  $S_2$  and  $C_3$  (figs. 10 and 11). Comparison of these data with previously discussed figures 7 and 8 for configurations  $B_1WVS_2EF$  and  $B_1WVS_0C_3EF$ , respectively, indicates no significant variations in the longitudinal aerodynamic characteristics due to  $B_2$  for the  $S_2$  fillet or the  $C_3$  canard modified configurations.

#### Lateral-Directional Aerodynamic Characteristics

The transonic lateral-directional stability characteristics of the baseline orbiter configuration  $B_1WVS_0EF$  were, in general, not materially affected by the incorporation of modified fuselage forebodies  $B_2$  and  $B_4$  (fig. 12) over the angle-of-attack range of the tests.

Addition of the wing planform fillet  $S_2$  (fig. 13) produced an increase in stable lateral stability levels ( $-C_{L\beta}$ ) at moderate angles of attack ( $8^\circ \leq \alpha \leq 20^\circ$ ) over the Mach number range of the study. The  $S_2$  fillet addition also produced stable increments in  $C_{n\beta}$  at Mach numbers of 0.80 through 1.20 at moderate to high angles of attack.

In general, the lateral-directional characteristics of the orbiter were improved by the addition of canards  $C_3$  or  $C_4$ . Both  $C_{n\beta}$  and  $-C_{L\beta}$  were increased at all Mach numbers tested.

#### Summary of Results

Tests were conducted in the Langley 8-Foot Transonic Pressure Tunnel to determine the effects of fuselage forebody and wing fillet modifications on the transonic aerodynamic characteristics of a Space Shuttle Orbiter configuration. Results are summarized as follows:

1. Fuselage forebody modifications  $B_2$  and  $B_4$  had only small effects on the transonic aerodynamic characteristics of the model.
2. Significant destabilizing longitudinal stability levels were produced by both the  $S_1$  and  $S_2$  planform fillet modifications. The fillet geometry changes also produced a reduction in  $(L/D)_{\max}$  at  $M = 0.35$  and, in general, increased  $(L/D)_{\max}$  at the higher Mach numbers. Favorable effects in lateral-directional stability characteristics were produced by the  $S_2$  modification.
3. Canards  $C_3$  and  $C_4$  when added to the baseline configuration produced significant reductions in longitudinal stability levels with the largest canard,  $C_4$ , having the largest destabilizing effect. The lateral-directional characteristics of configurations incorporating the canards were improved over those of the baseline orbiter.

## REFERENCES

1. Bernot, Peter T.: Space Shuttle Orbiter Trimmed Center-of-Gravity Extension Study. Vol. I - Effects of Configuration Modifications on the Aerodynamic Characteristics of the 140 A/B Orbiter at Mach 10.3. NASA TM X-72661, 1975.
2. Schaefer, William T., Jr.: Characteristics of Major Active Wind Tunnels at the Langley Research Center. NASA TM X-1130, July 1965.

TABLE I.- MODEL GEOMETRY

Theoretical wing:

Area, planform, $\text{m}^2$ ( $\text{ft}^2$ ) . . . . .	0.02499 (0.2690)
Area, elevon, $\text{m}^2$ ( $\text{ft}^2$ ) . . . . .	0.001951 (0.0210)
Span, cm (in.) . . . . .	23.792 (9.367)
Chord, center-line root, cm (in.) . . . . .	17.507 (6.892)
Chord, tip, cm (in.) . . . . .	3.501 (1.378)
Taper ratio . . . . .	0.20
Aspect ratio . . . . .	2.265
Leading-edge sweep angle, deg . . . . .	45.0
Trailing-edge sweep angle, deg . . . . .	-10.0
Dihedral angle, deg . . . . .	3.5
Incidence angle, deg ( $y_0 = 5.056$ cm) . . . . .	0.5
Twist angle, deg . . . . .	3.0
Airfoil section, tip . . . . .	0012-64 modified
$x_0$ , wing leading edge, plane of symmetry . . . . .	21.234 (8.360)
intersection, cm (in.)	

Fuselage, baseline  $B_1$  configuration:

Length, reference, cm (in.) . . . . .	32.774 (12.903)
Length, nose-to-body flap hingeline, cm (in.) . . . . .	32.850 (12.933)
Width, maximum excluding base flare, cm (in.) . . . . .	5.486 (2.160)
Depth, maximum, cm (in.) . . . . .	6.350 (2.500)
$z_0$ , reference - forebody apex, cm (in.) . . . . .	8.585 (3.380)

Fuselage,  $B_2$  configuration:

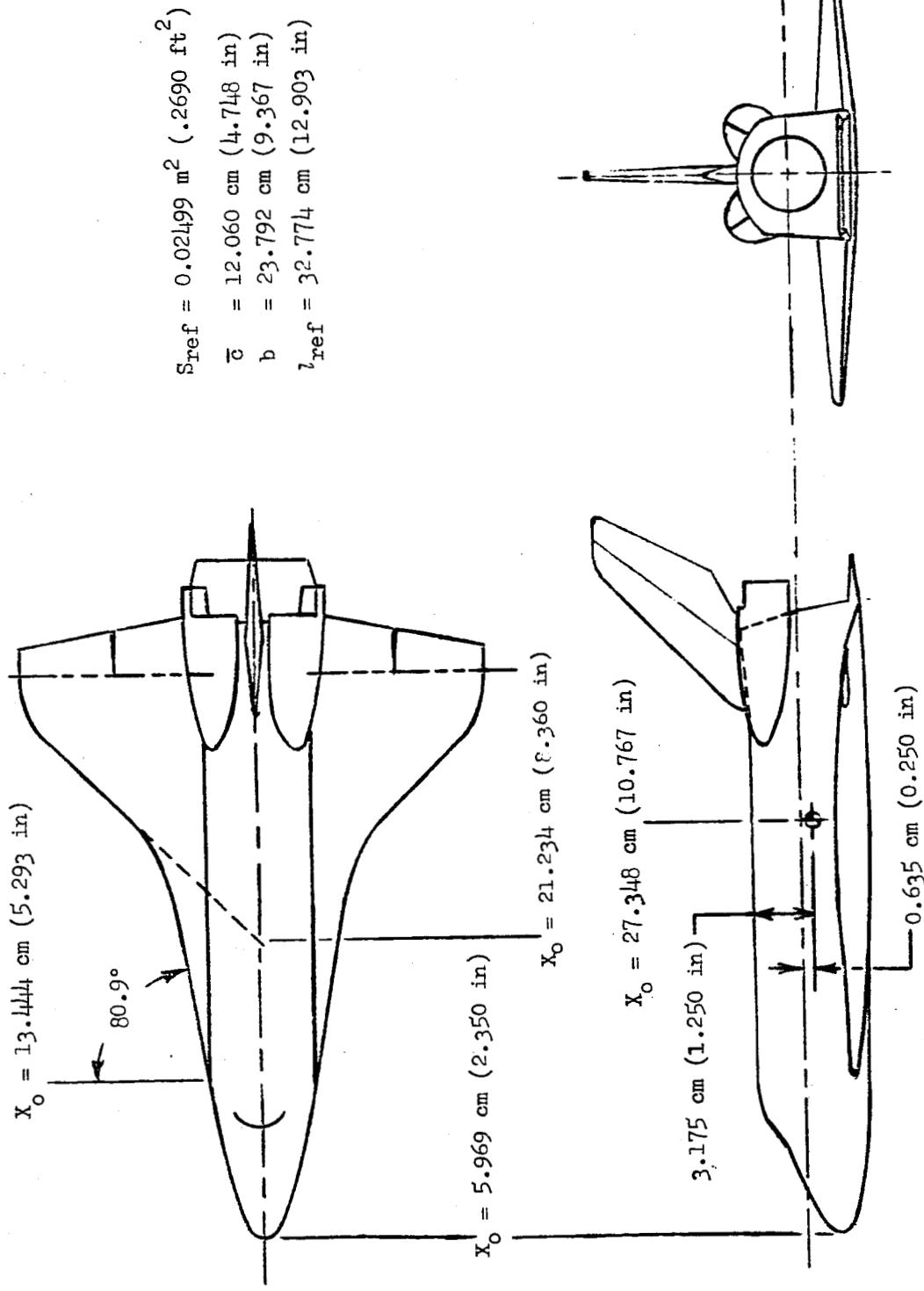
Length, reference, cm (in.) . . . . .	32.774 (12.903)
Length, nose-to-body flap hingeline, cm (in.) . . . . .	32.850 (12.933)

TABLE I.-CONTINUED

Width, maximum excluding base flare, cm (in.) . . . . .	5.486 (2.160)
Depth, maximum, cm (in.) . . . . .	6.350 (2.500)
$z_0$ , reference-forebody apex, cm (in.) . . . . .	9.093 (3.580)
Fuselage, $B_4$ configuration:	
Length, reference, cm (in.) . . . . .	32.774 (12.903)
Length, nose-to-body flap hingeline, cm (in.) . . . . .	33.510 (13.193)
Width, maximum excluding base flare, cm (in.) . . . . .	5.486 (2.160)
Depth, maximum, cm (in.) . . . . .	6.350 (2.500)
$z_0$ , reference-forebody apex, cm (in.) . . . . .	9.042 (3.560)
Wing planform fillet $S_0$ , baseline:	
Leading-edge sweep angle, deg . . . . .	80.9
$x_0$ , wing leading-edge (theoretical) intersection cm (in.) . . . . .	25.984 (10.230)
Wing, planform fillet $S_1$ :	
Leading-edge sweep angle, deg . . . . .	76.2
$x_0$ , wing leading-edge (theoretical) intersection cm (in.) . . . . .	27.940 (11.000)
Wing planform fillet $S_2$ :	
Leading-edge sweep angle (forward portion), deg . . . . .	67.4
Leading-edge sweep angle (aft portion), deg . . . . .	85.0
$x_0$ , intersection of forward and aft fillet leading-edges, cm (in.) . . . . .	12.929 (5.090)
$x_0$ , intersection of aft fillet and theoretical wing, cm (in.) . . . . .	25.984 (10.230)
Canard $C_3$ :	
Exposed area, $\text{m}^2$ ( $\text{ft}^2$ ) . . . . .	0.001241 (0.013363)
Leading-edge sweep angle, deg . . . . .	54.7
Canard, $C_4$ :	
Exposed area, $\text{m}^2$ ( $\text{ft}^2$ ) . . . . .	0.002544 (0.027388)
Leading-edge sweep angle, deg . . . . .	54.7
Vertical tail:	
Area (theoretical), $\text{m}^2$ ( $\text{ft}^2$ ) . . . . .	0.003839 (0.041325)

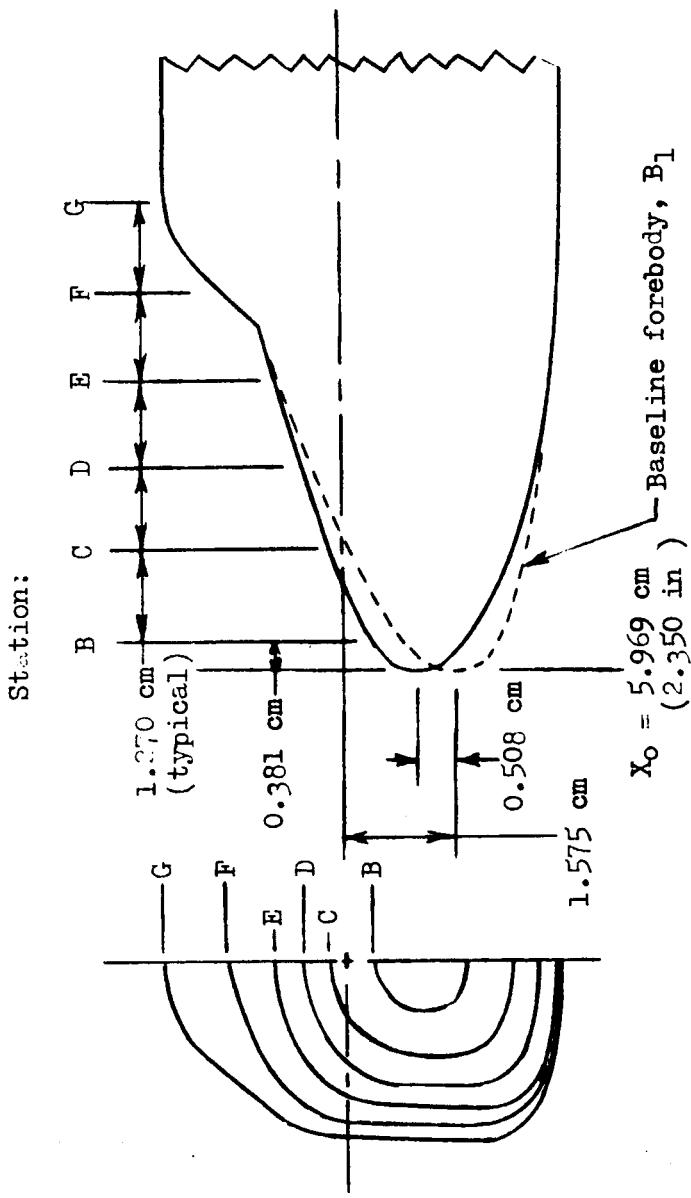
TABLE I.-CONCLUDED

Leading-edge sweep angle, deg	45.0
Root chord (theoretical), cm (in.)	6.820 (2.685)
Tip chord (theoretical), cm (in.)	2.755 (1.085)
Span, cm (in.)	8.019 (3.157)



(a) Three-view of baseline orbiter model (Configuration B<sub>1</sub>WWS<sub>0</sub>EF)

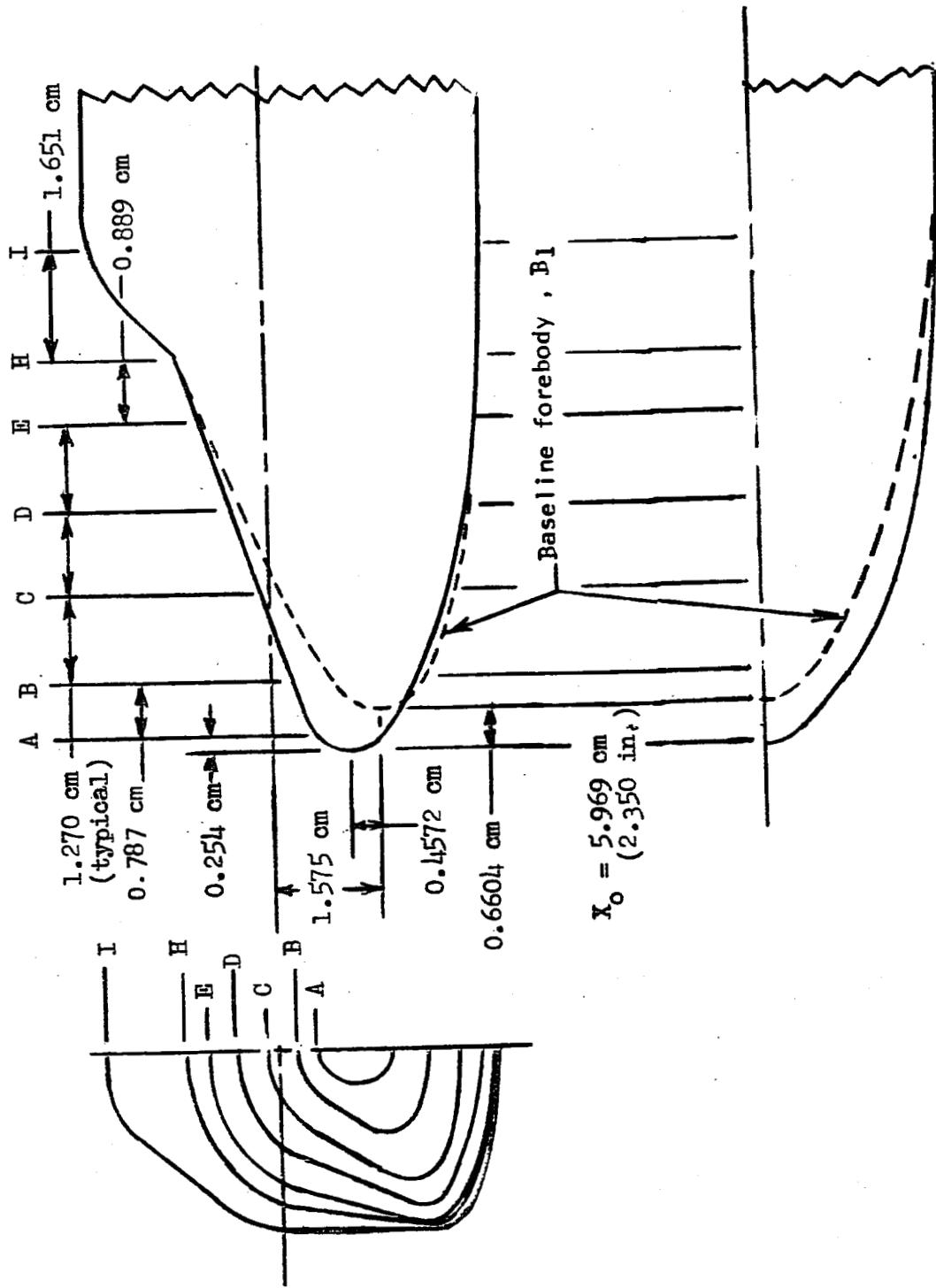
Figure 1. - Model drawings.



(b) Forebody  $B_2$

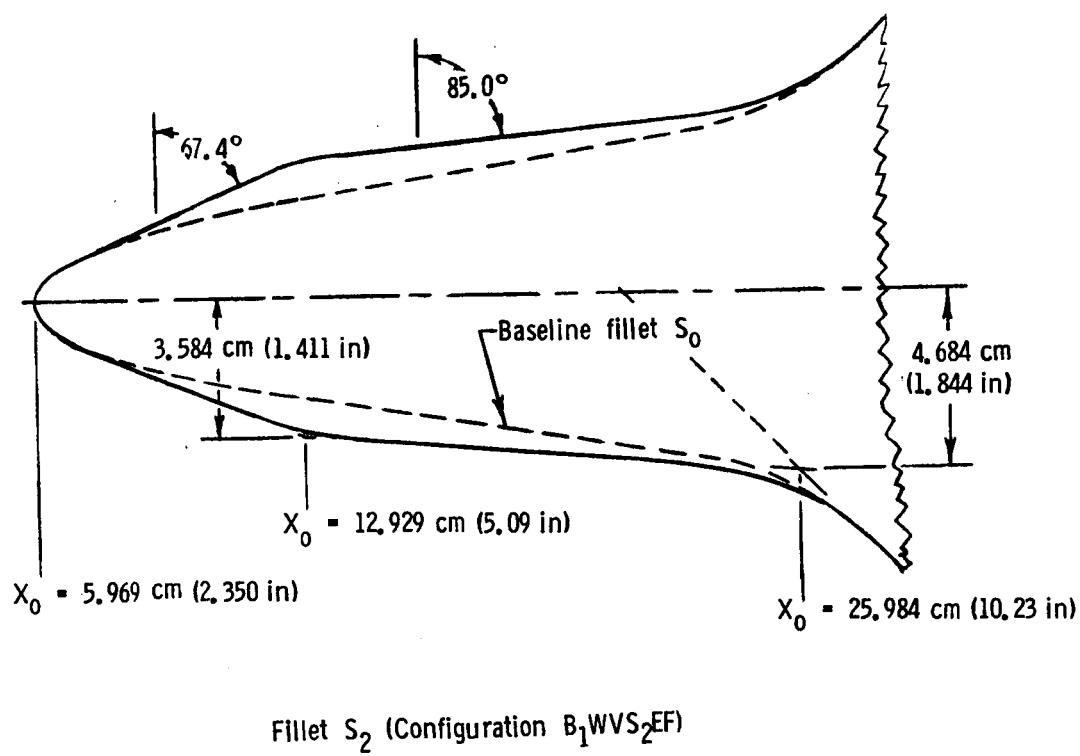
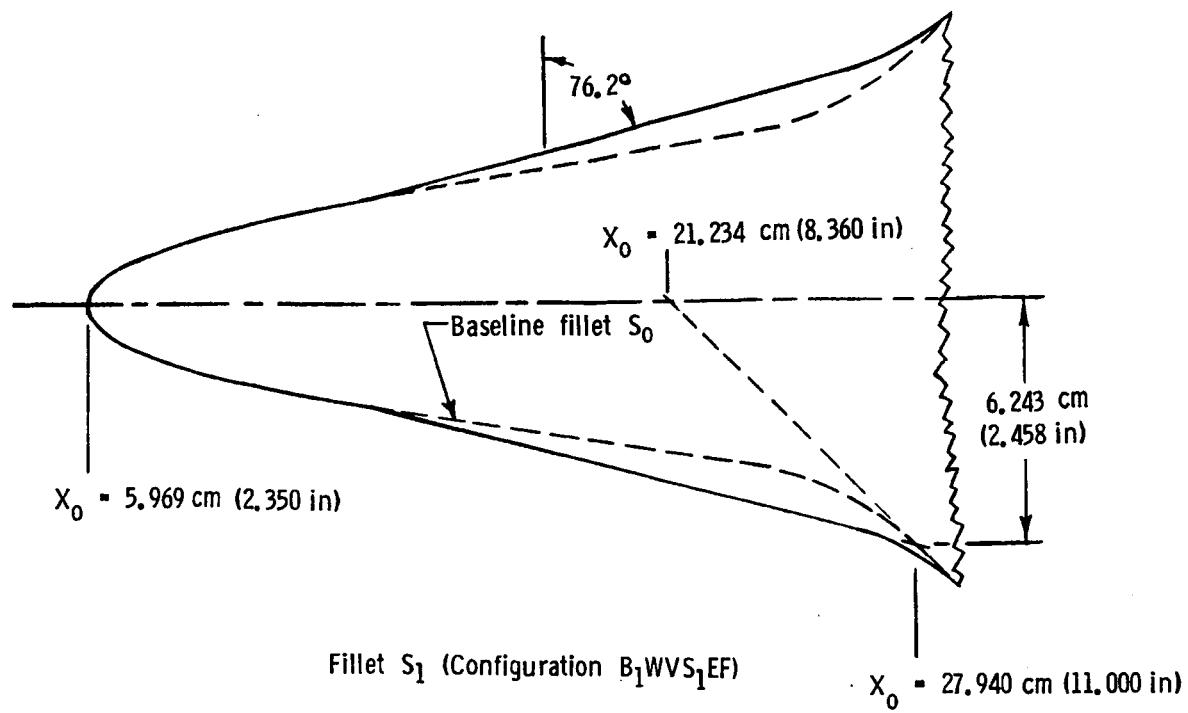
Figure 1.- Continued.

Station:



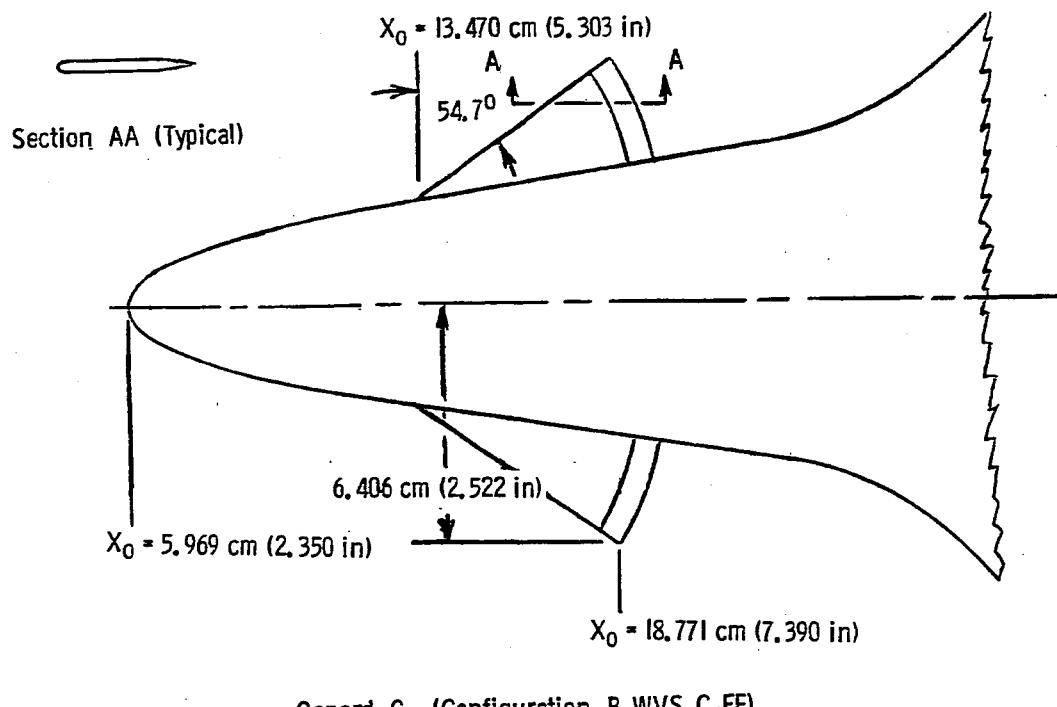
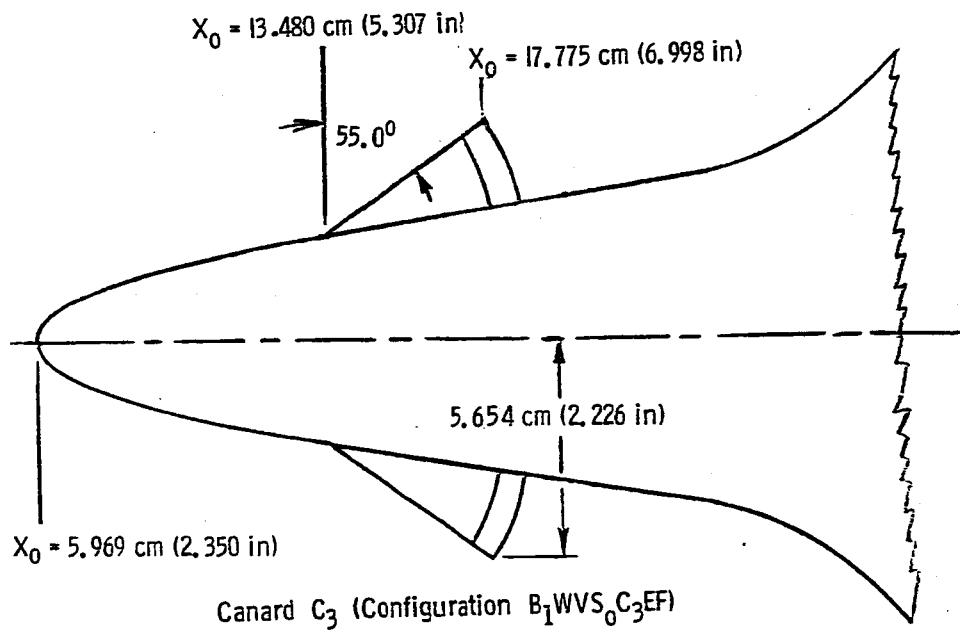
(c) Forebody B<sub>4</sub>

Figure 1.- Continued.



(d) Fillets  $S_1$  and  $S_2$

Figure 1. - Continued.



(e) Canards C<sub>3</sub> and C<sub>4</sub>

Figure 1. - Concluded.

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(a) Baseline 140 A/B orbiter model (Configuration R1 WVS<sub>0</sub> EF)

Figure 2.- Photographs of several test configurations.



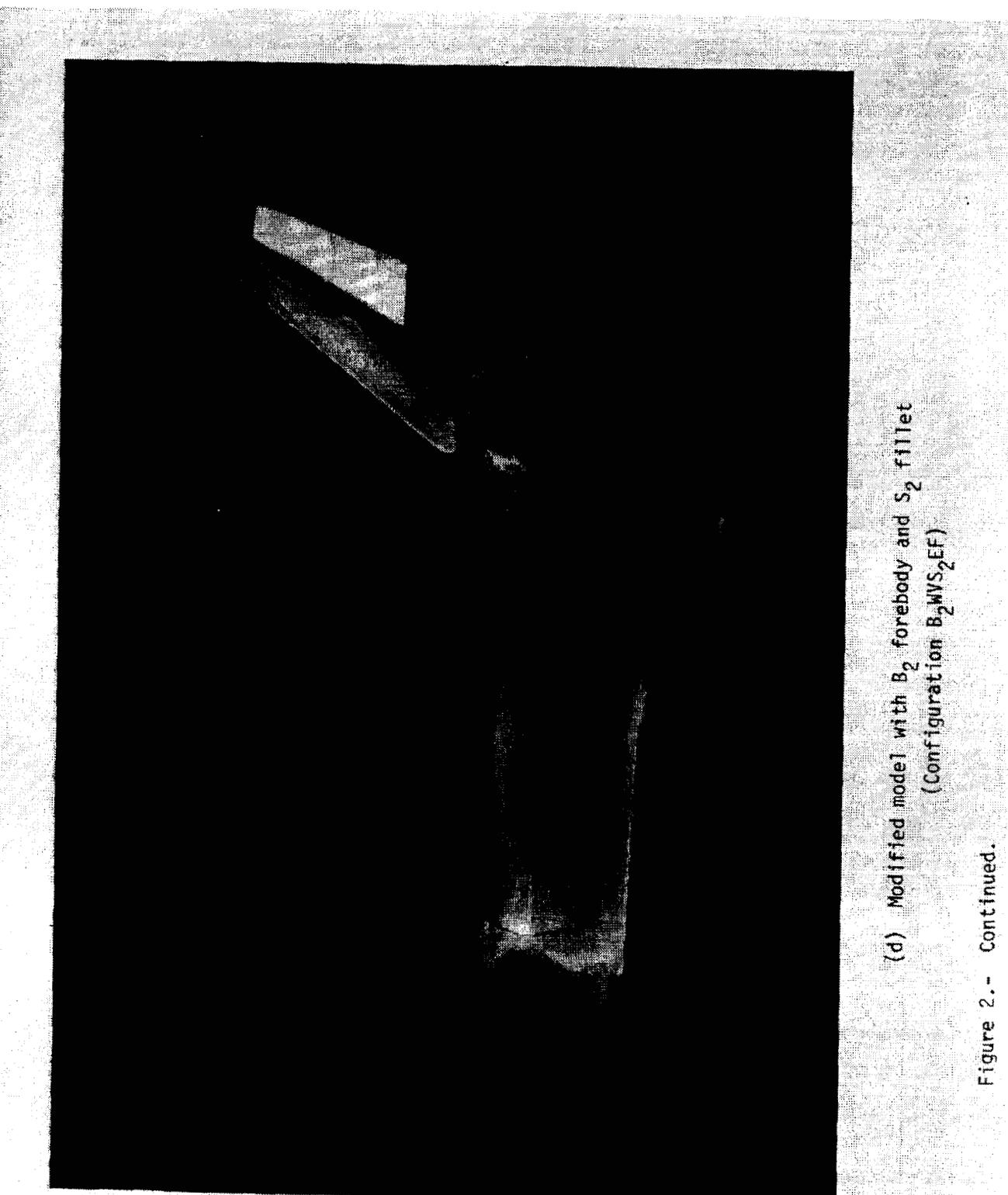
(b) Modified model with  $B_4$  forebody (Configuration  $B_4 N V S_0 E F$ )

Figure 2.- continued.



(c) Modified model with  $S_1$  fillet (Configuration  $B_1^{MWS_1EF}$ )

Figure 2.- (c) Modified model with  $S_1$  fillet (Configuration  $B_1^{MWS_1EF}$ )



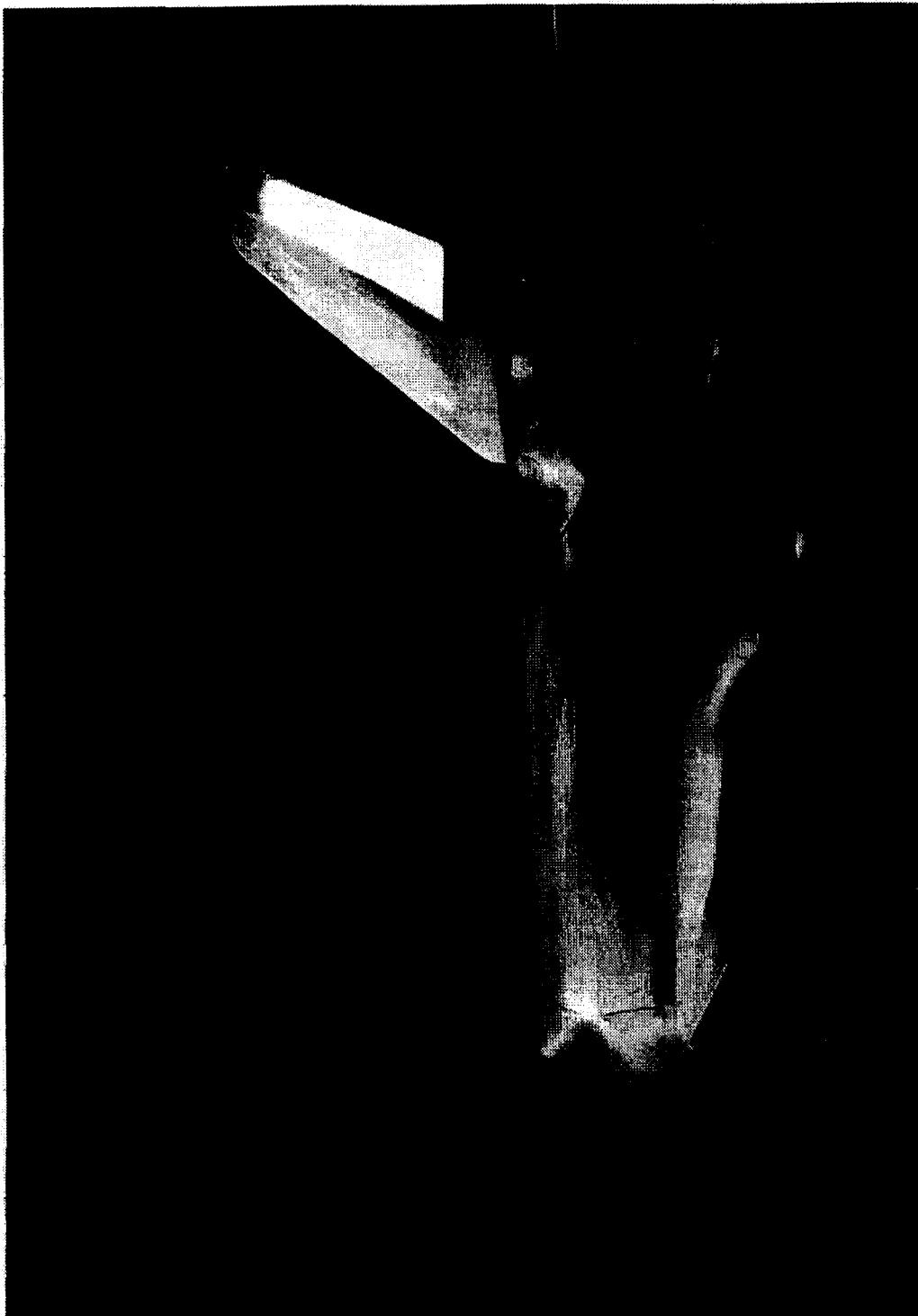
(d) Modified model with  $B_2$  forebody and  $S_2$  fillet  
(Configuration  $B_2WVS_2EF$ )

Figure 2.- Continued.



(e) Modified model with  $C_3$  canard (Configuration  
 $B_1WVS_0C_3EF$ )

Figure 2.- Continued.



(f) Modified model with  $C_4$  canard (Configuration  
 $B_1WVS_0C_4EF$ )

Figure 2.- Concluded.

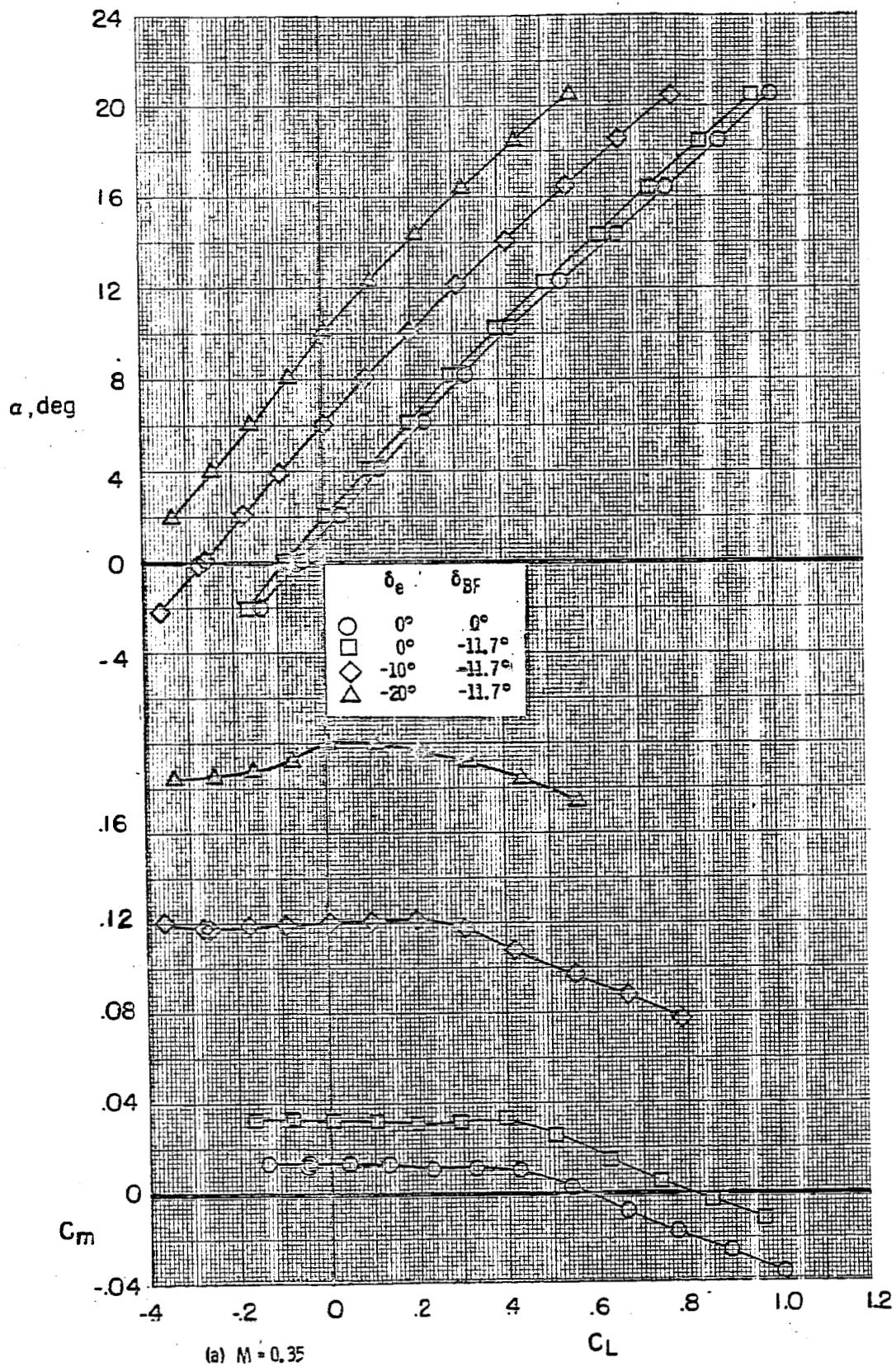
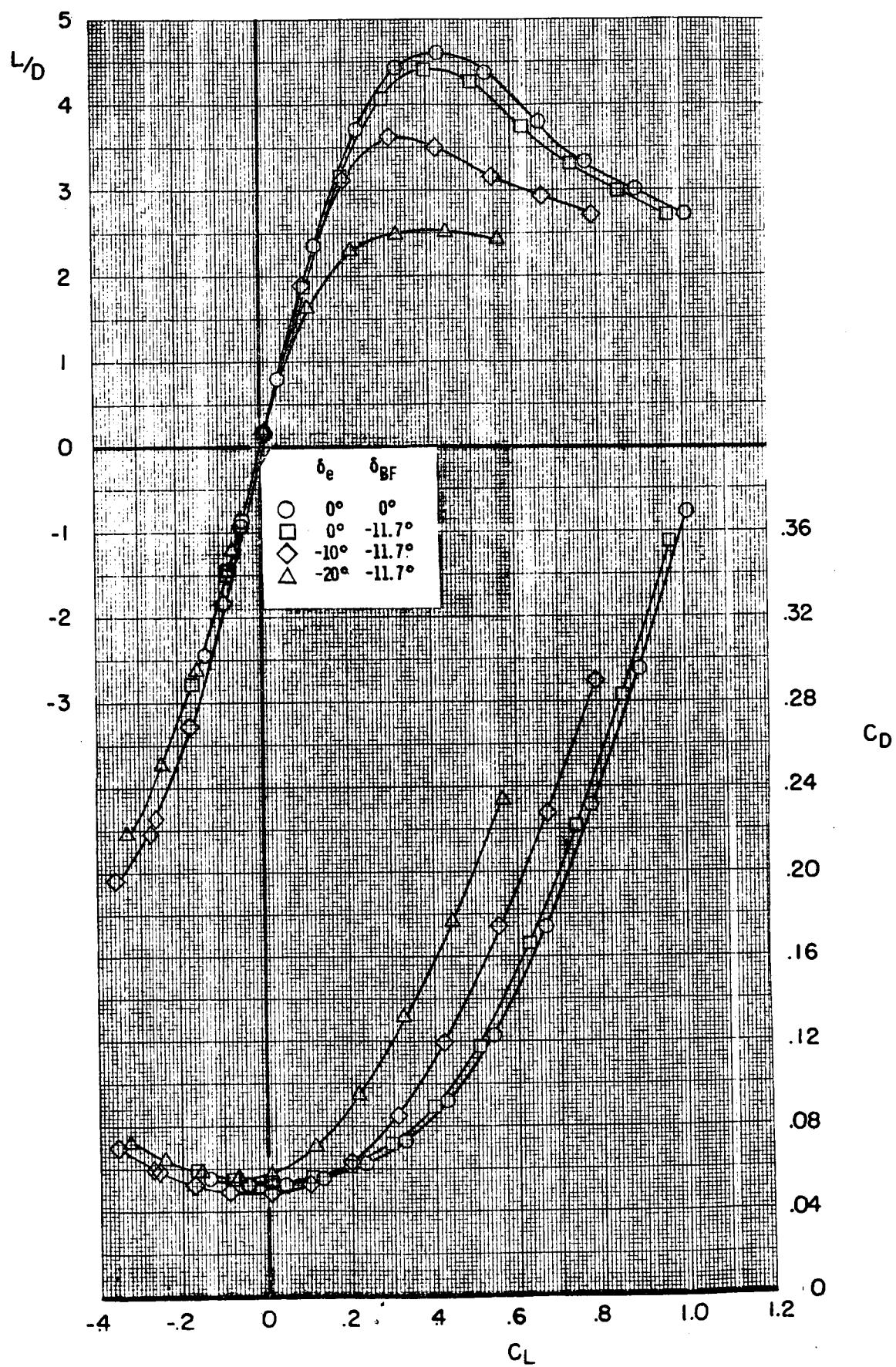


Figure 3. - Longitudinal aerodynamic characteristics for the baseline configuration,  $B_1WVS_0$ .  
 $\delta_{SB} = 0^\circ$



(a) Concluded

Figure 3. - Continued.

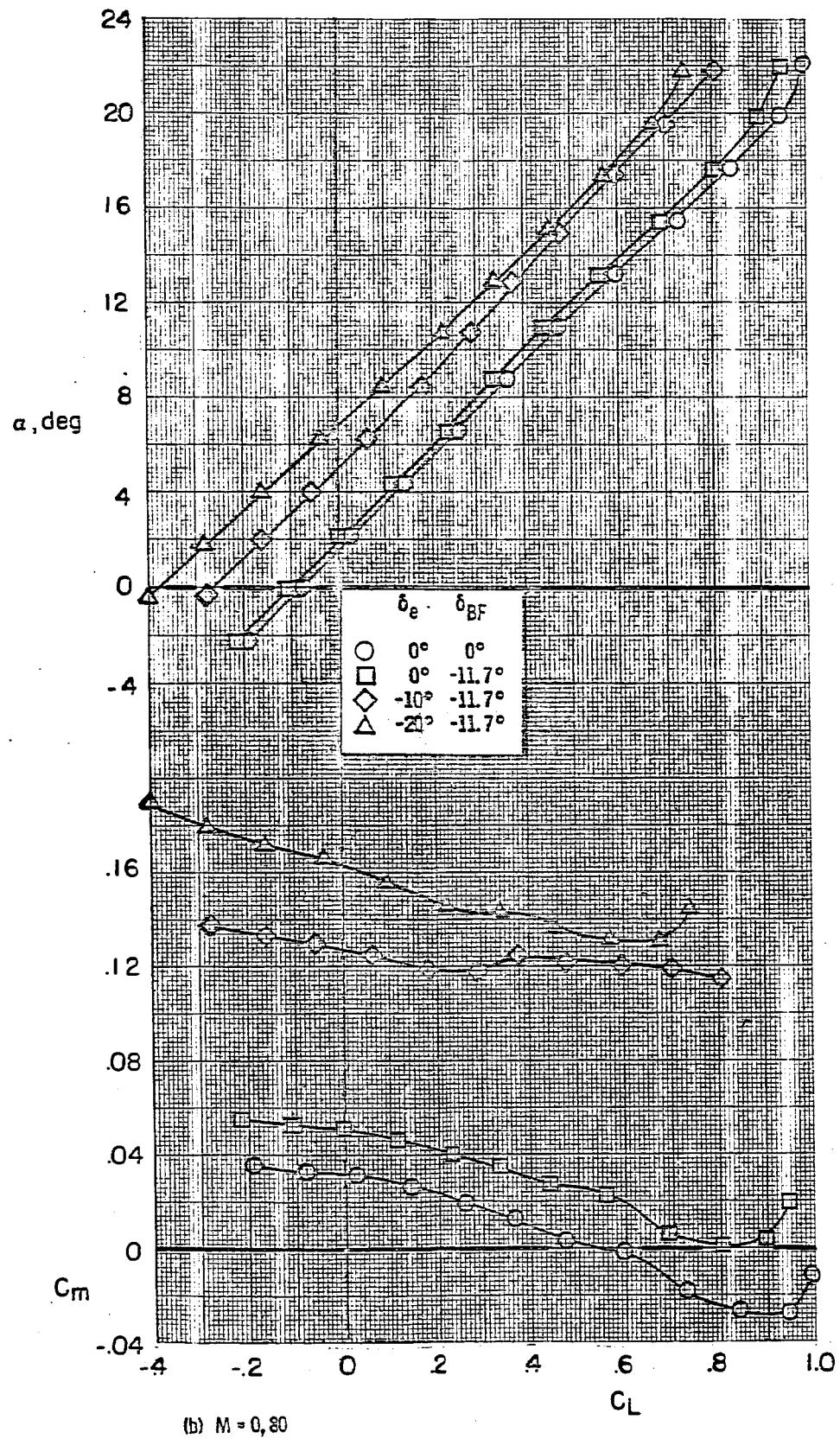
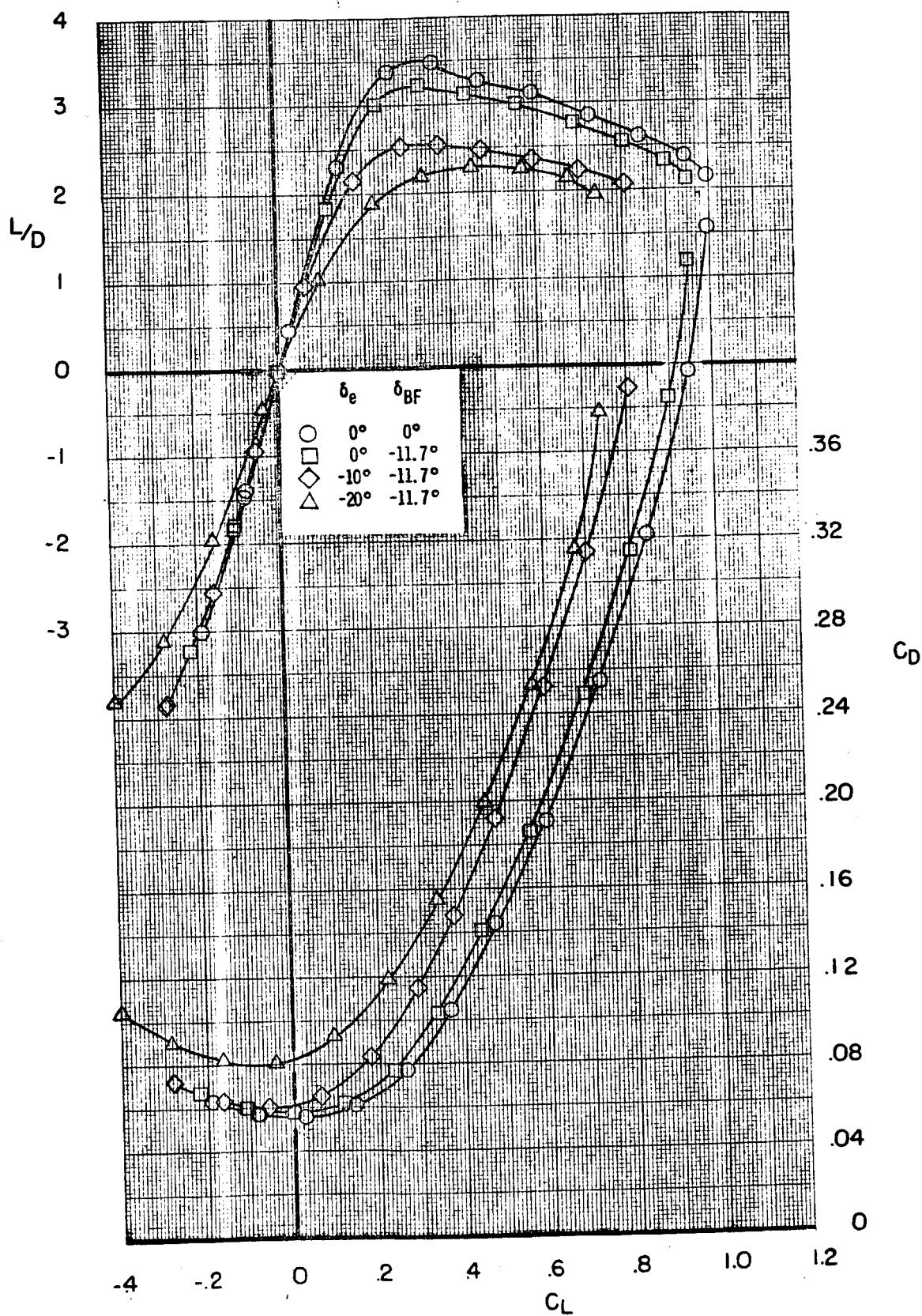
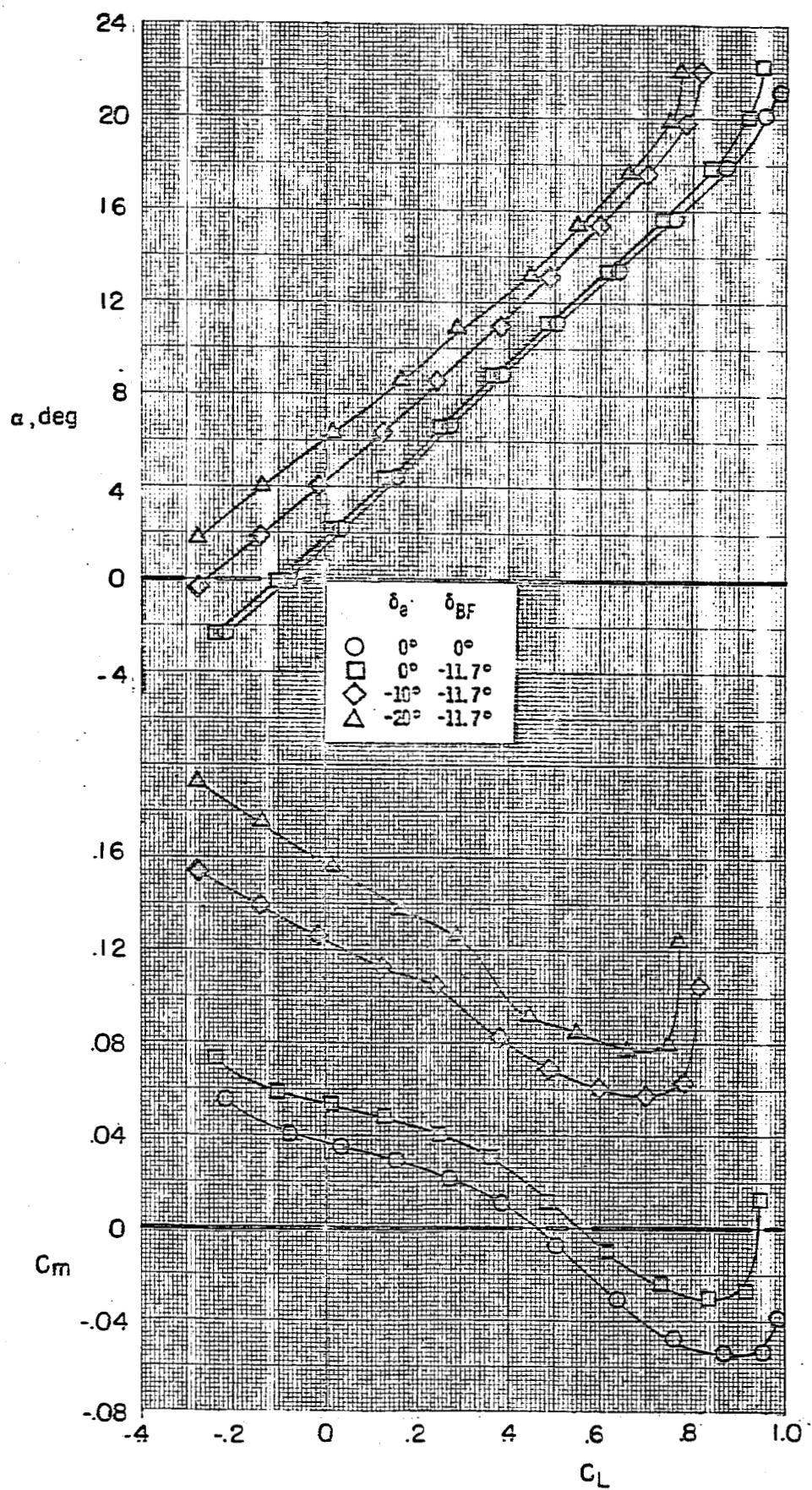


Figure 3. - Continued.



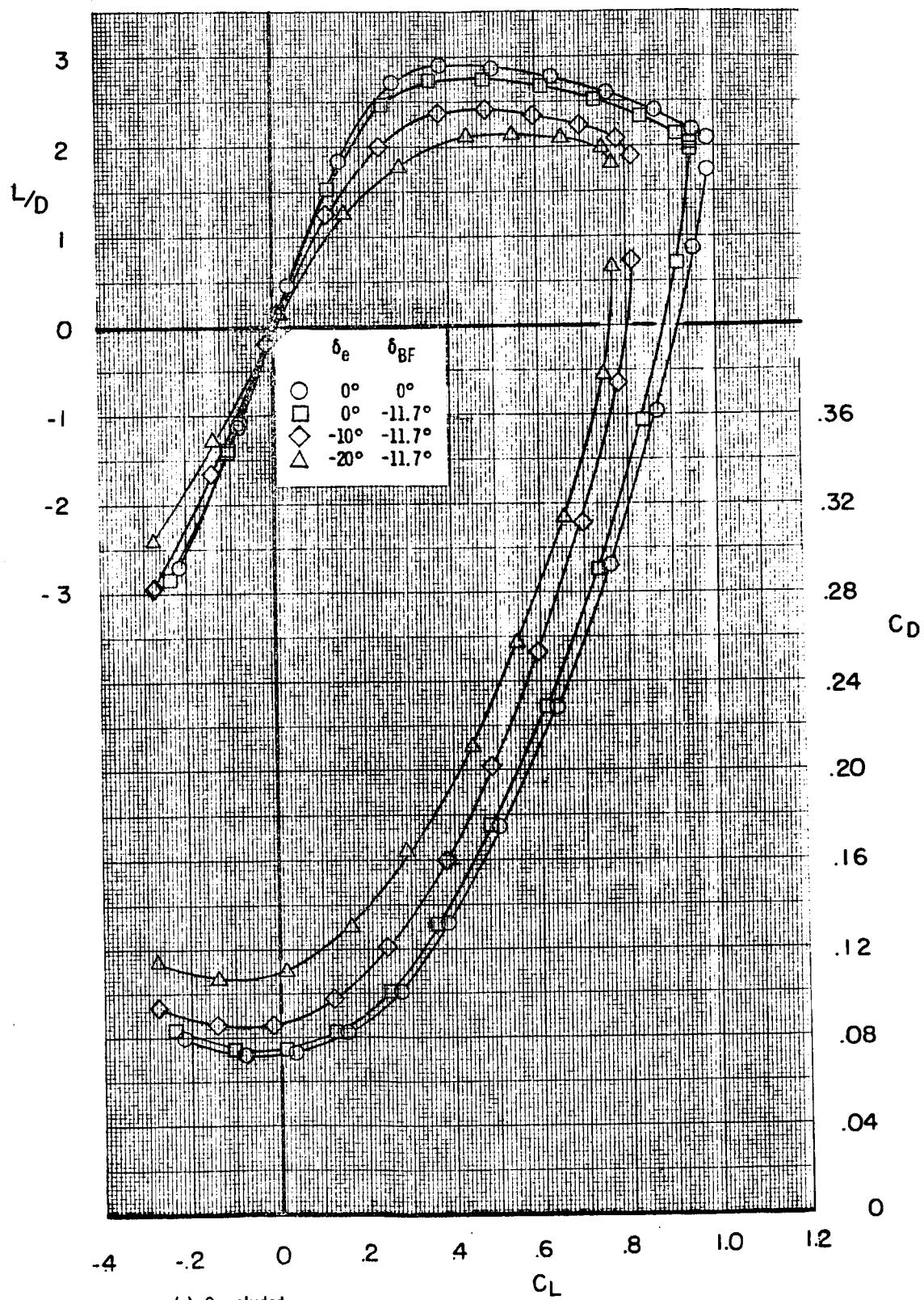
(b) Concluded

Figure 3.- Continued:



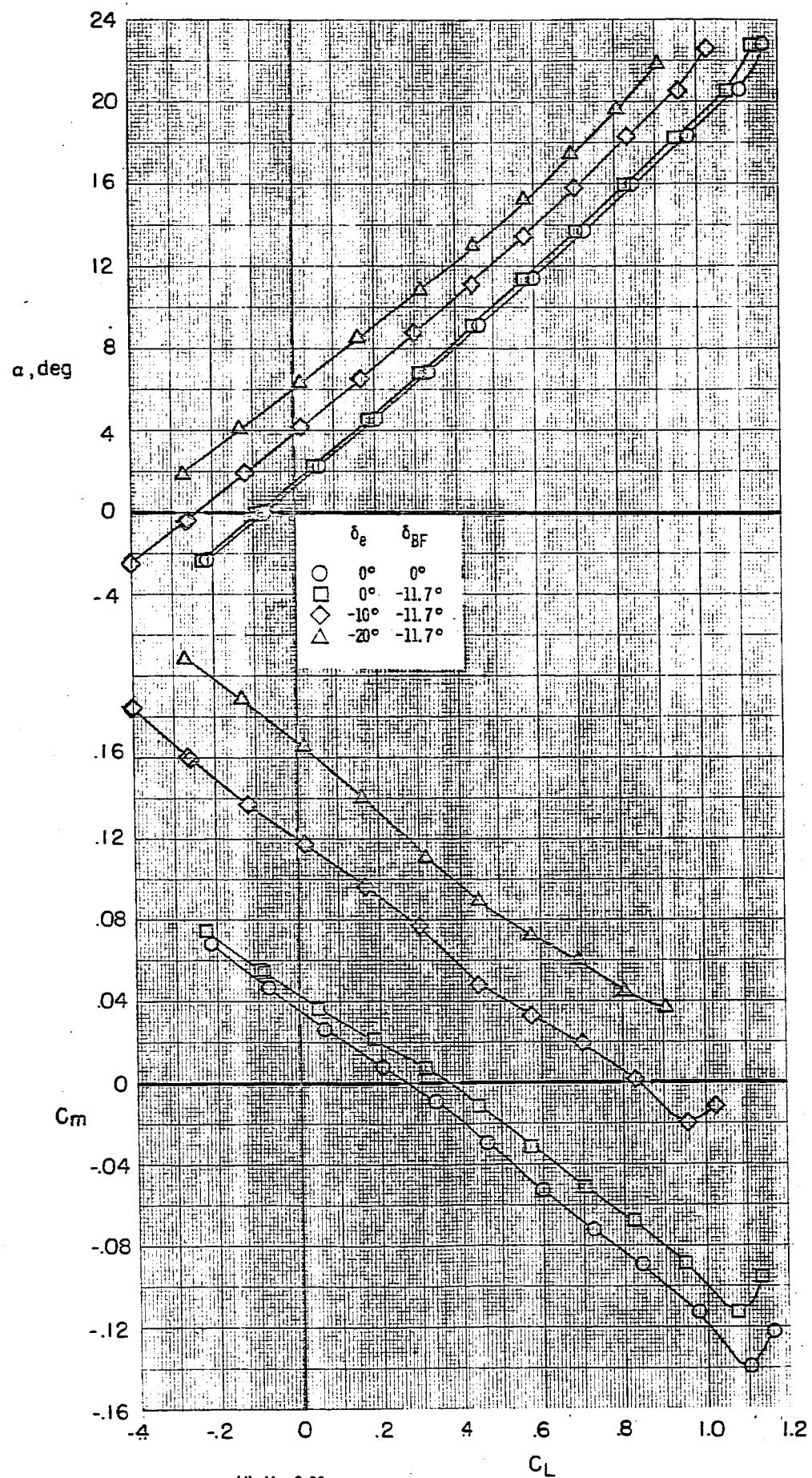
(c)  $M = 0.90$

Figure 3. - Continued.



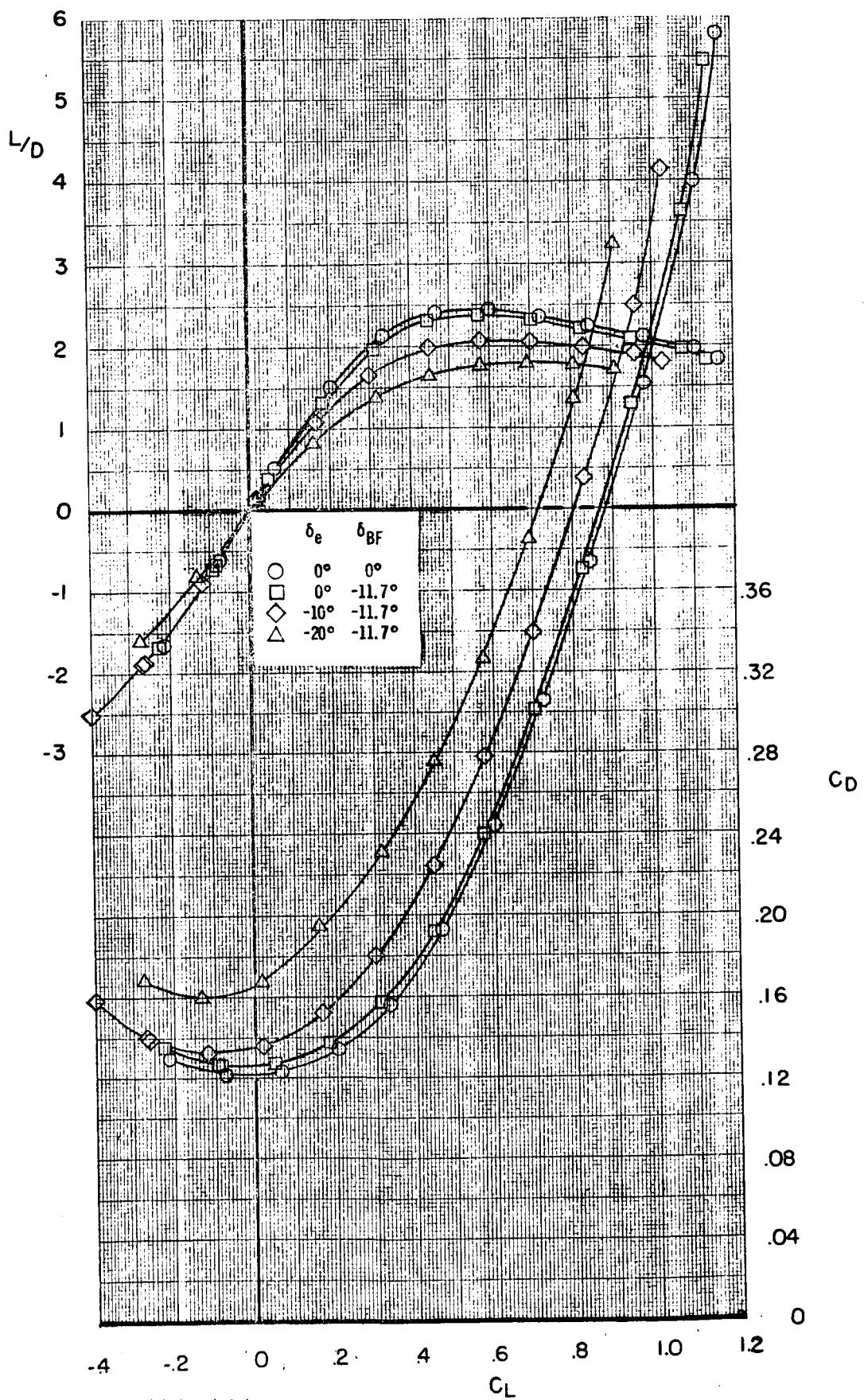
(c) Concluded.

Figure 3. - Continued.



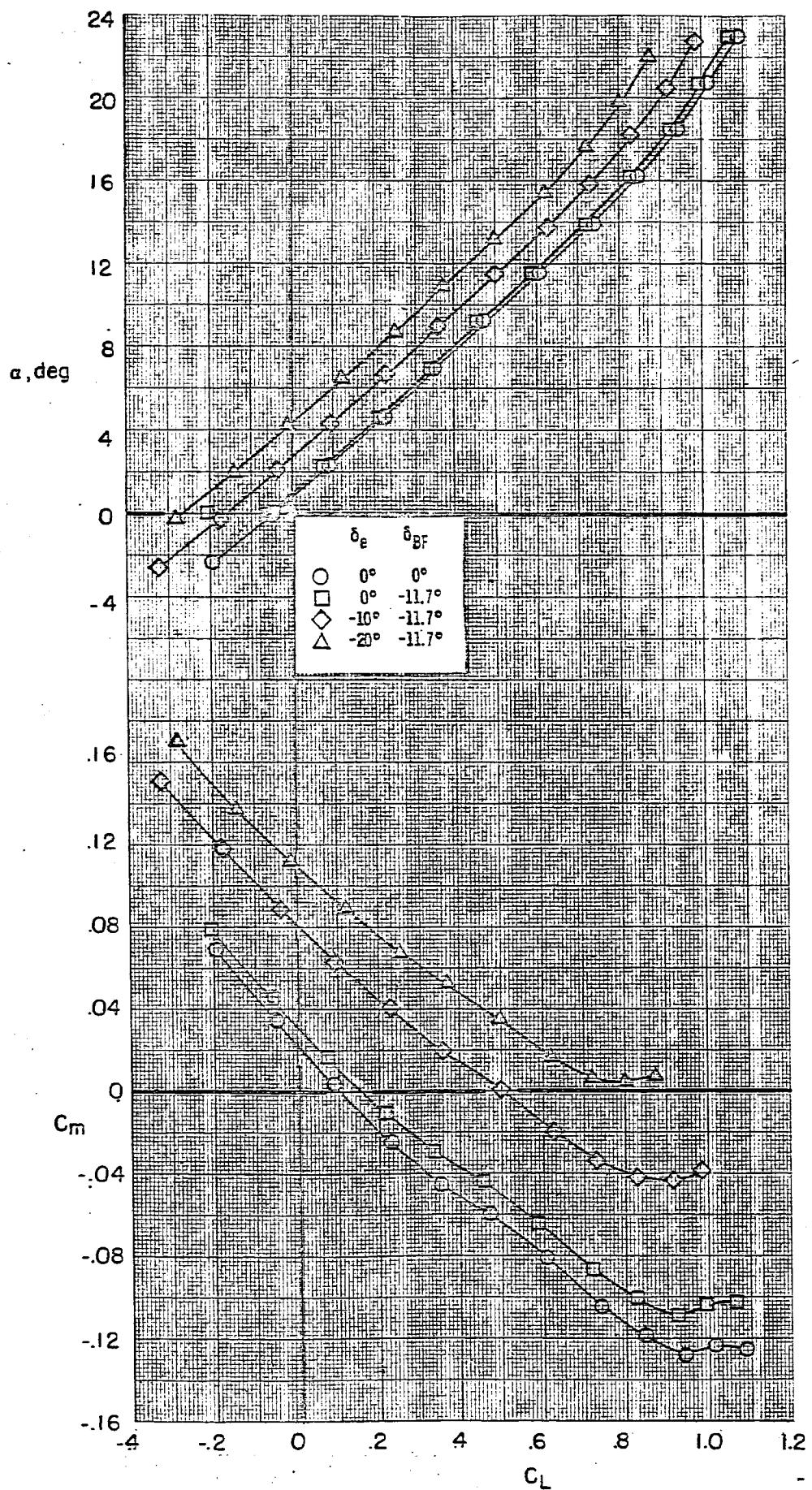
(d)  $M = 0.98$

Figure 3.- Continued.



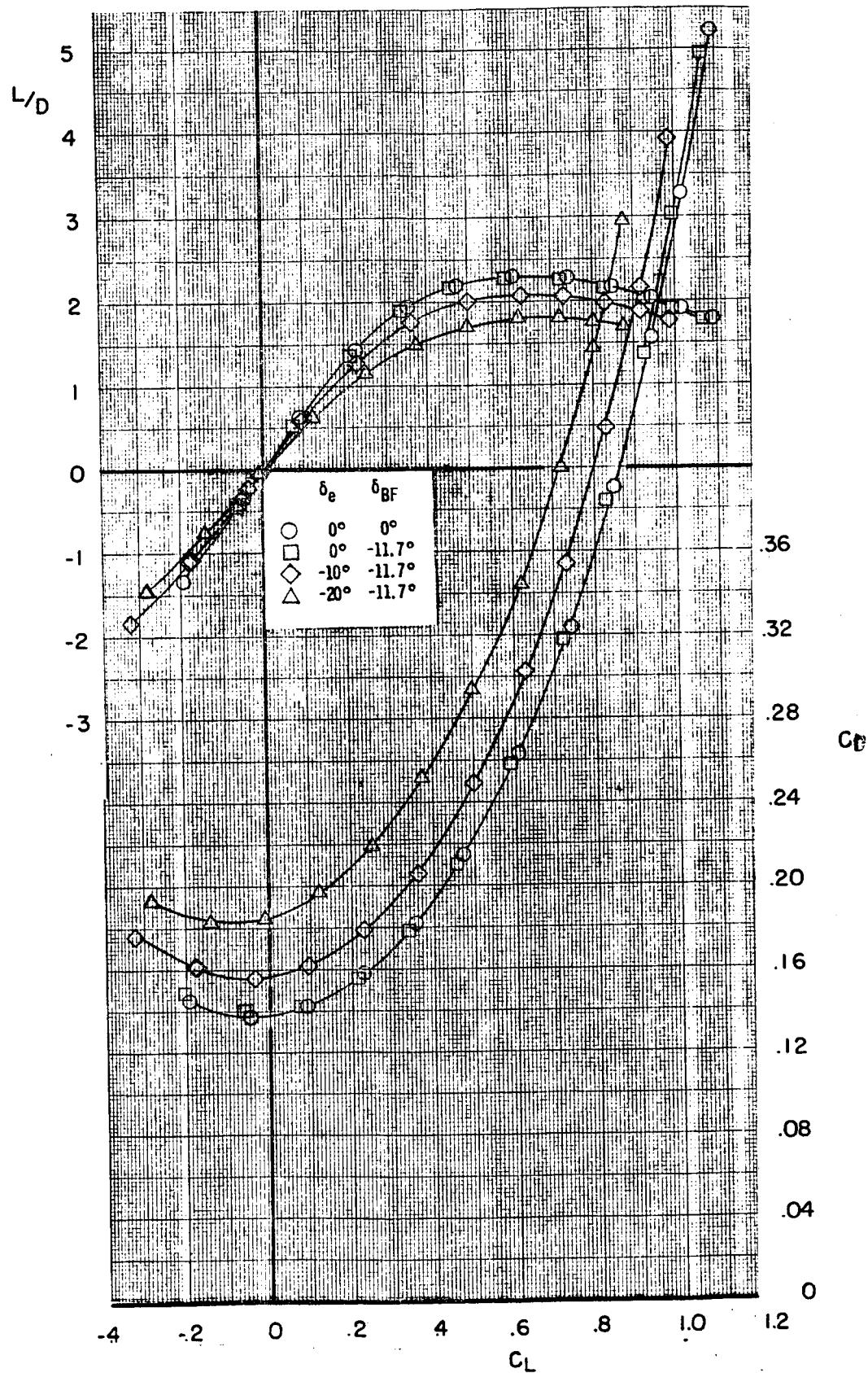
(d) Concluded

Figure 3. - Continued.



(e)  $M = 1.20$

Figure 3.- Continued.



(e) Concluded  
Figure 3. - Concluded.

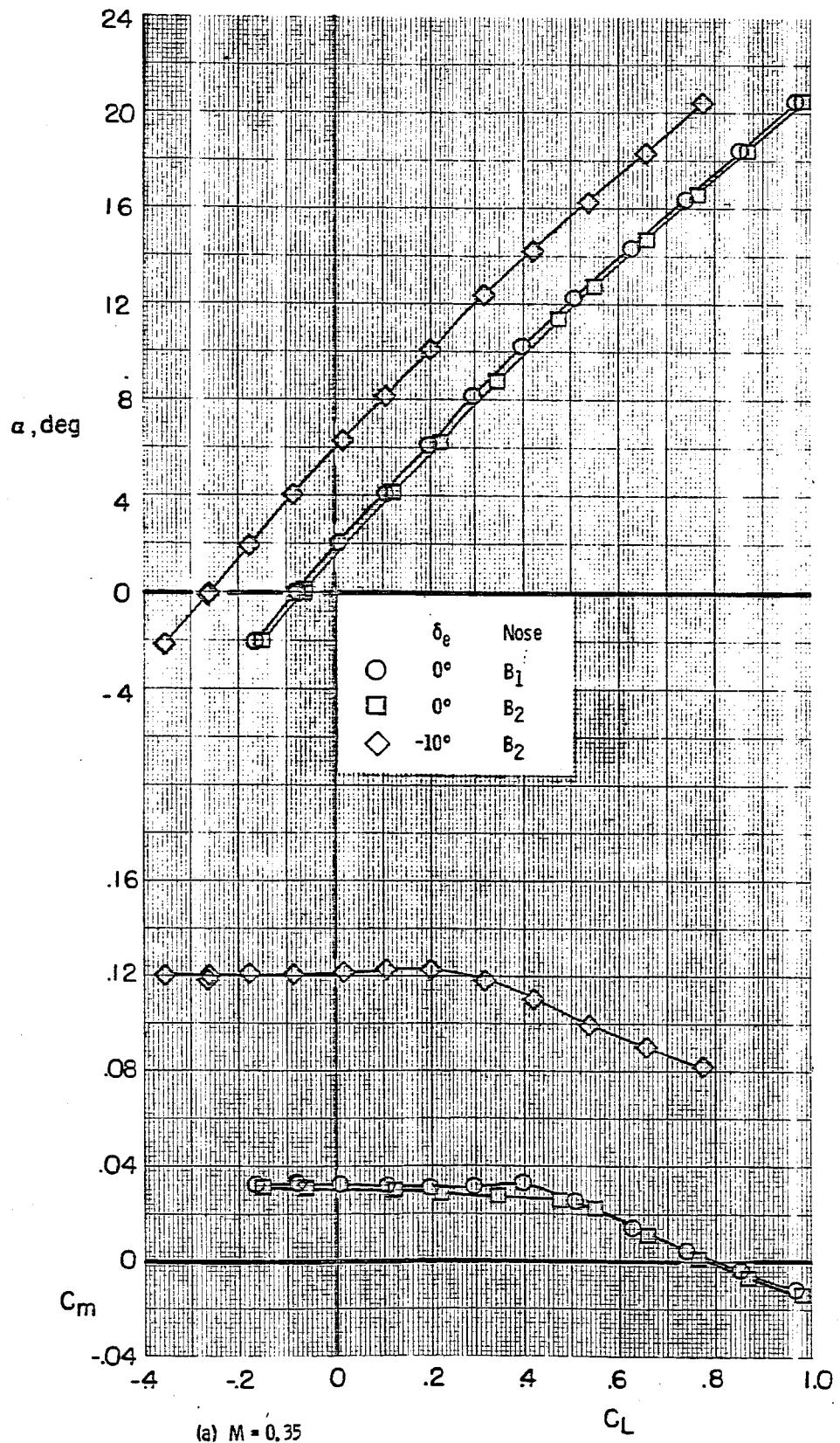
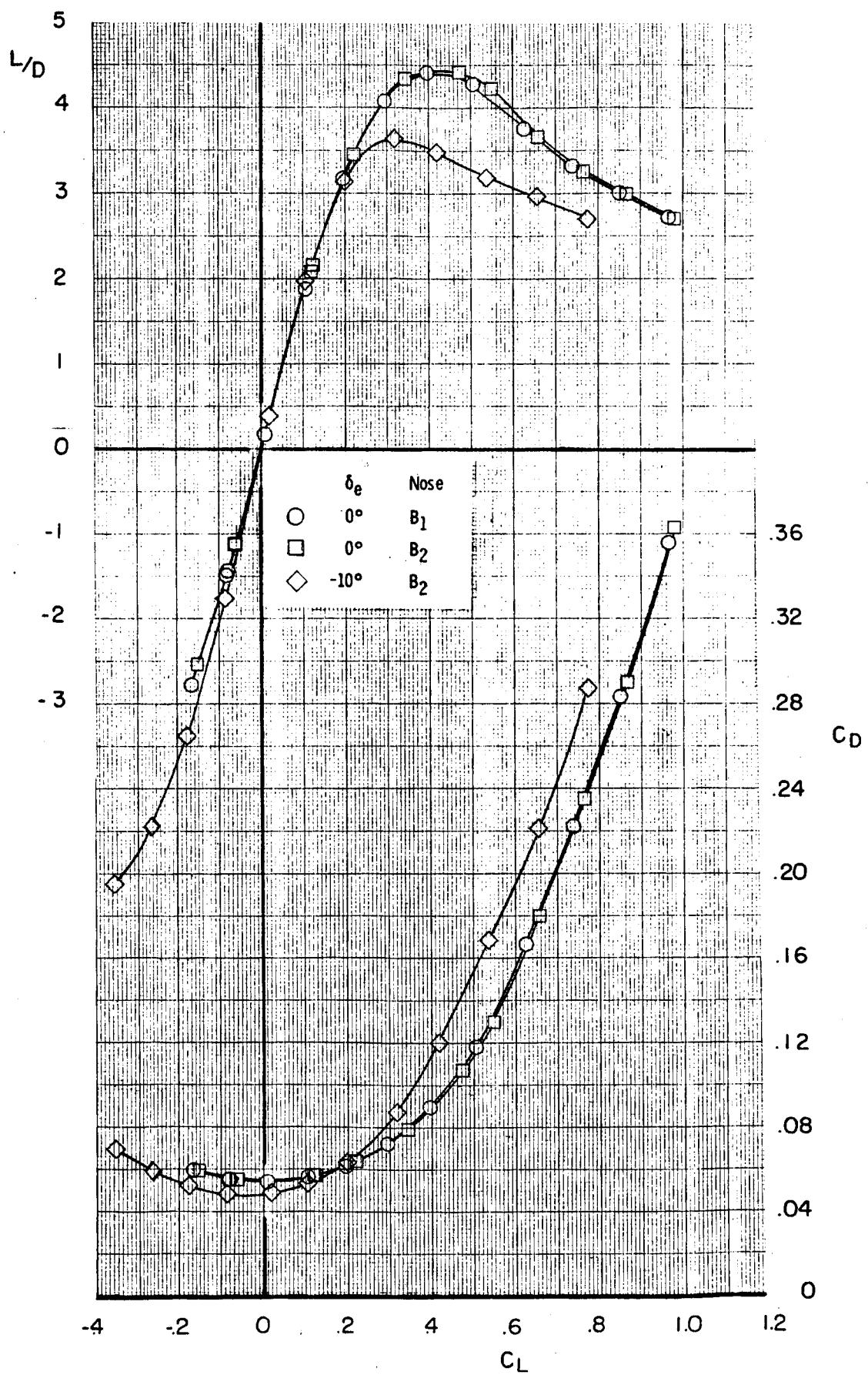
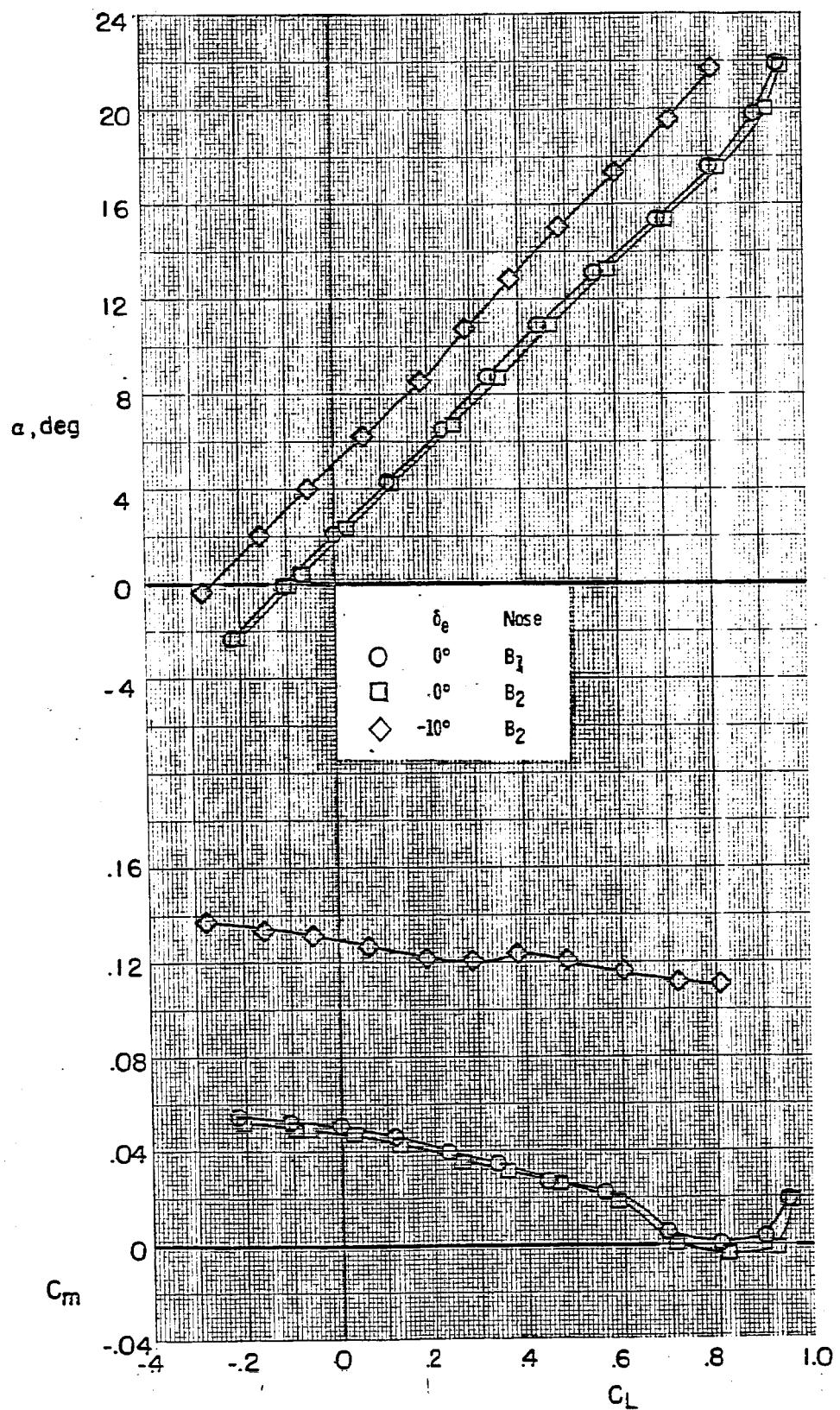


Figure 4. - Effect of fuselage fairing  $B_2$  on the longitudinal aerodynamic characteristics of configuration  $B_1 WVS_0 EE$ .  $\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .



(a) Concluded

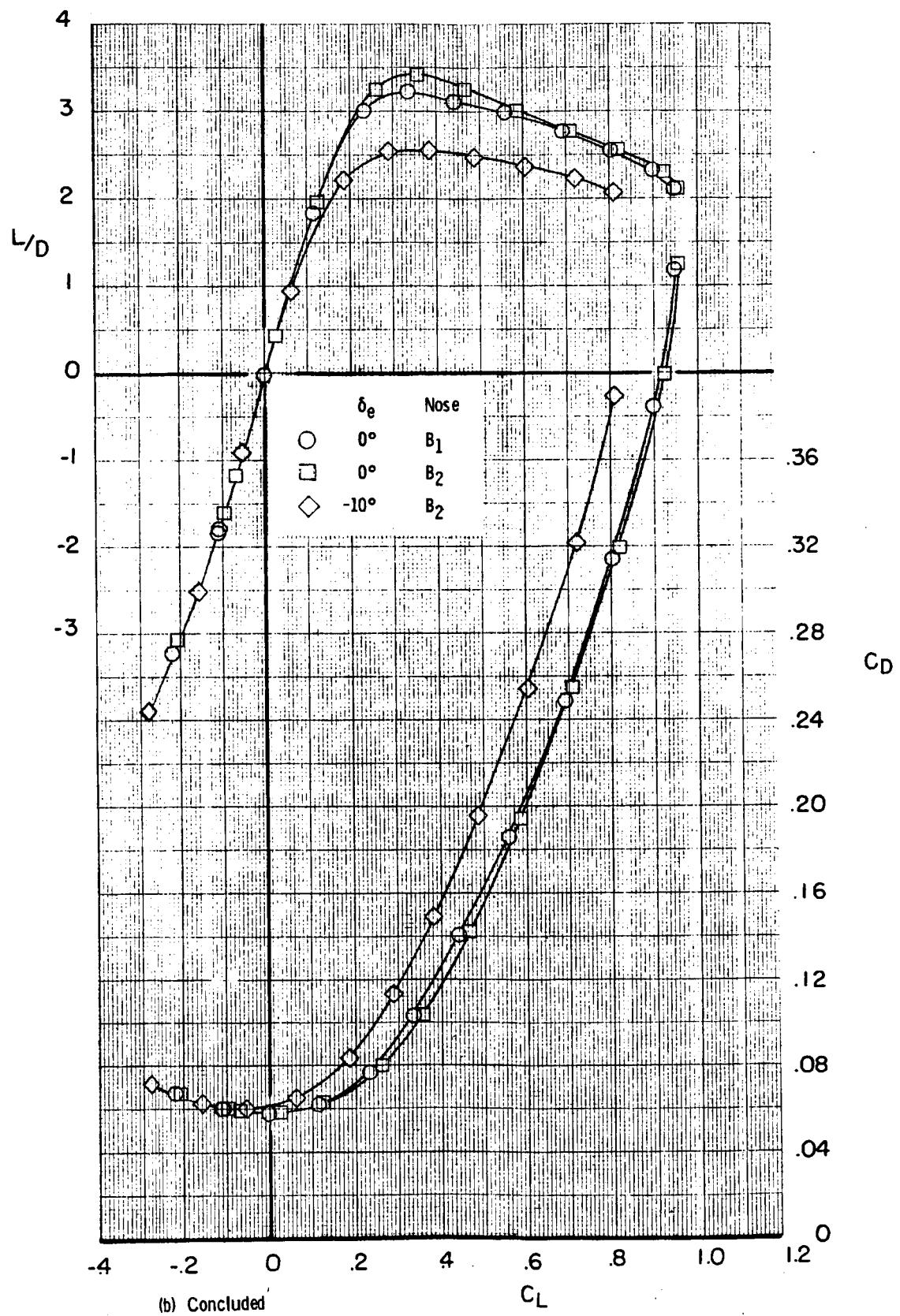
Figure 4. - Continued.



(b)  $M = 0.80$

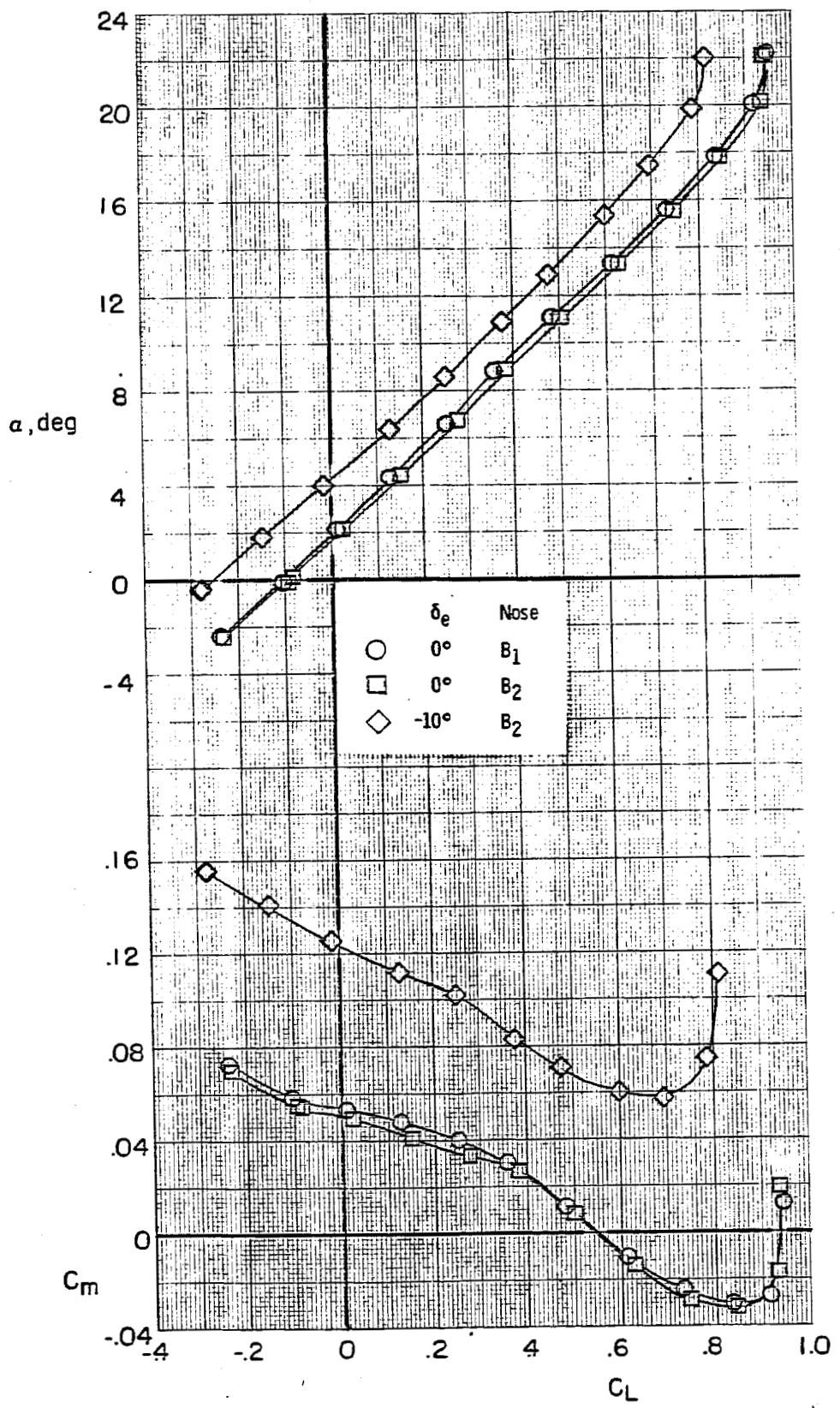
Figure 4. - Continued.

40



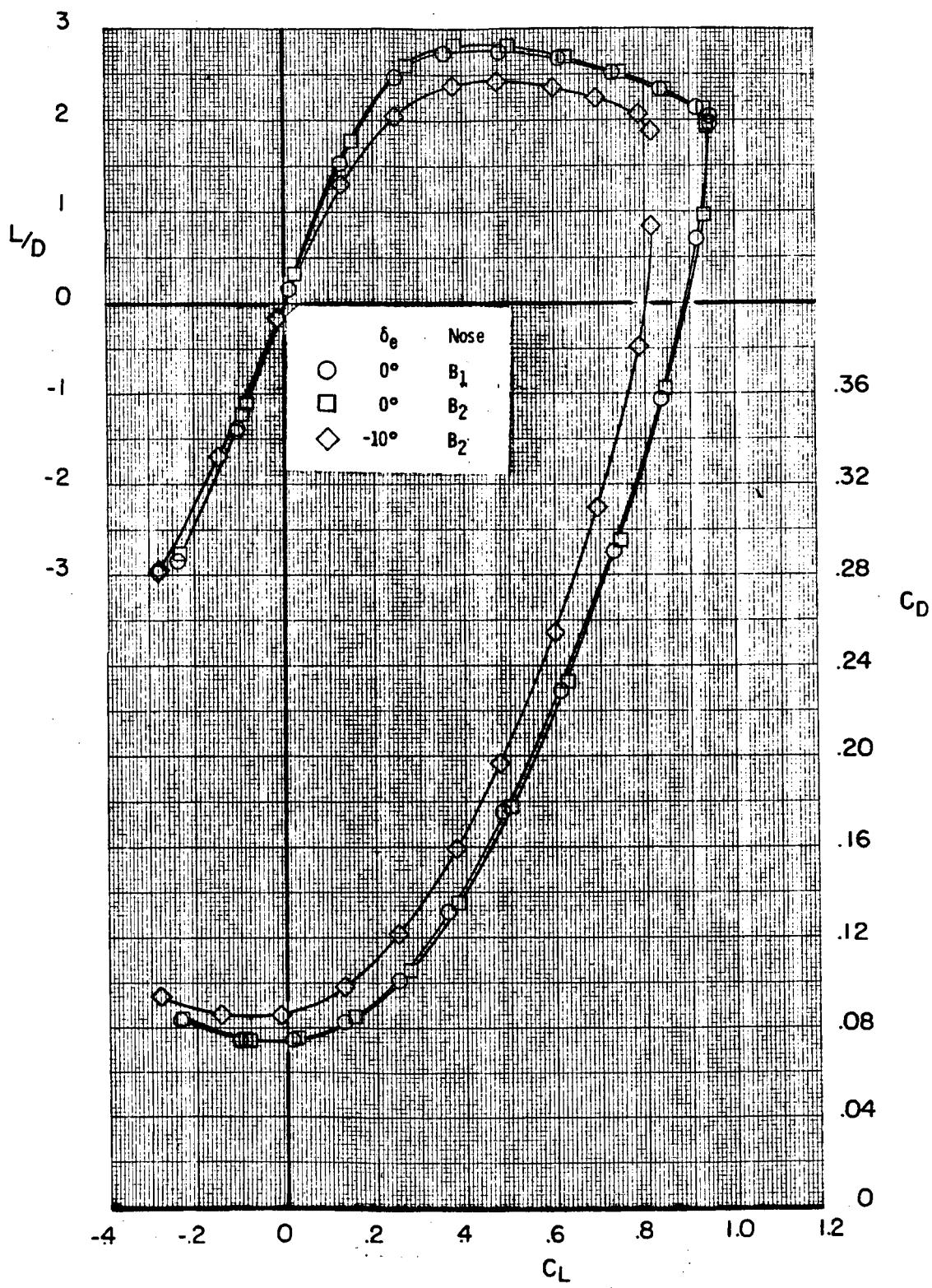
(b) Concluded

Figure 4. - Continued.



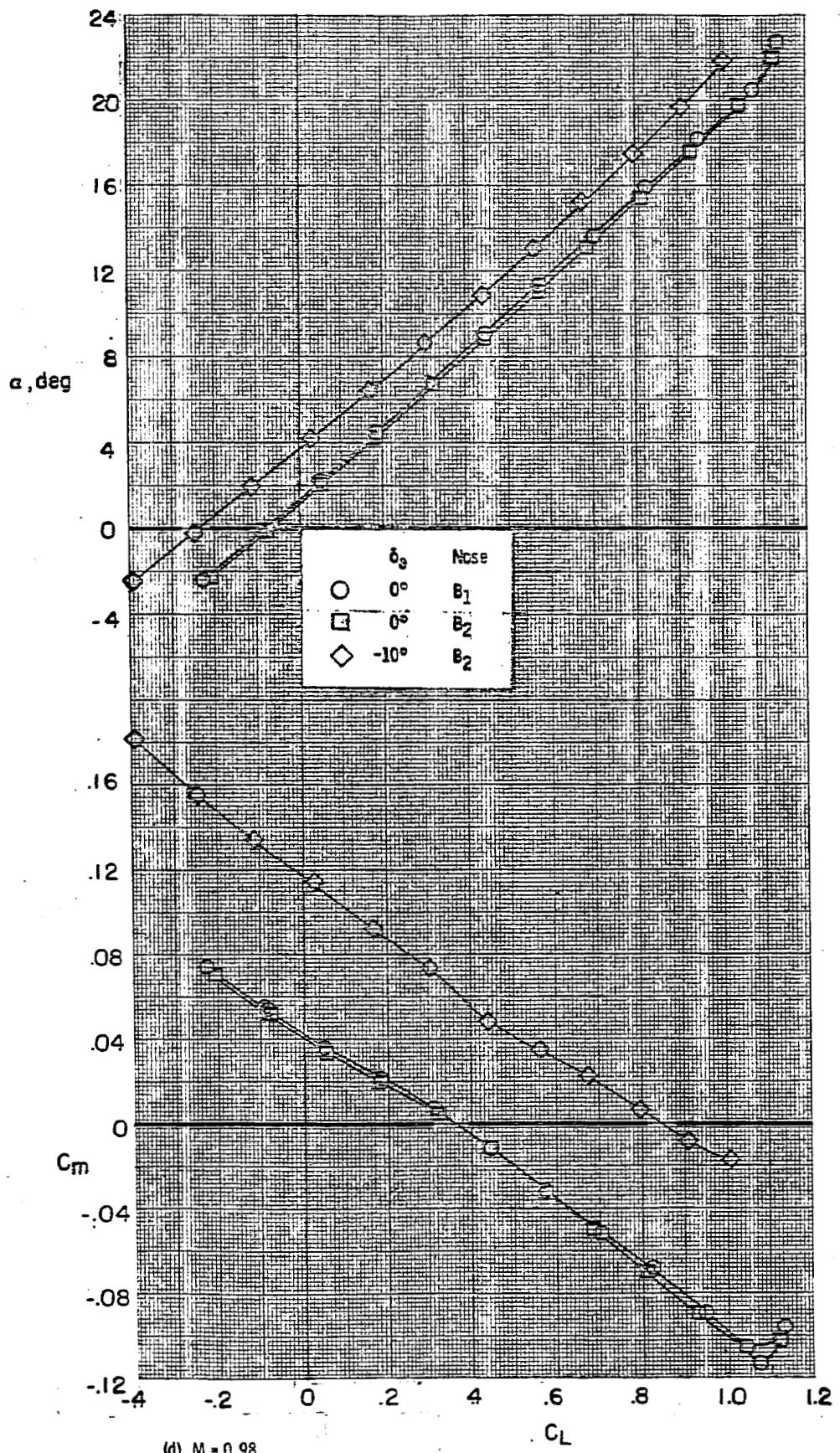
(c)  $M = 0.90$

Figure 4. - Continued.



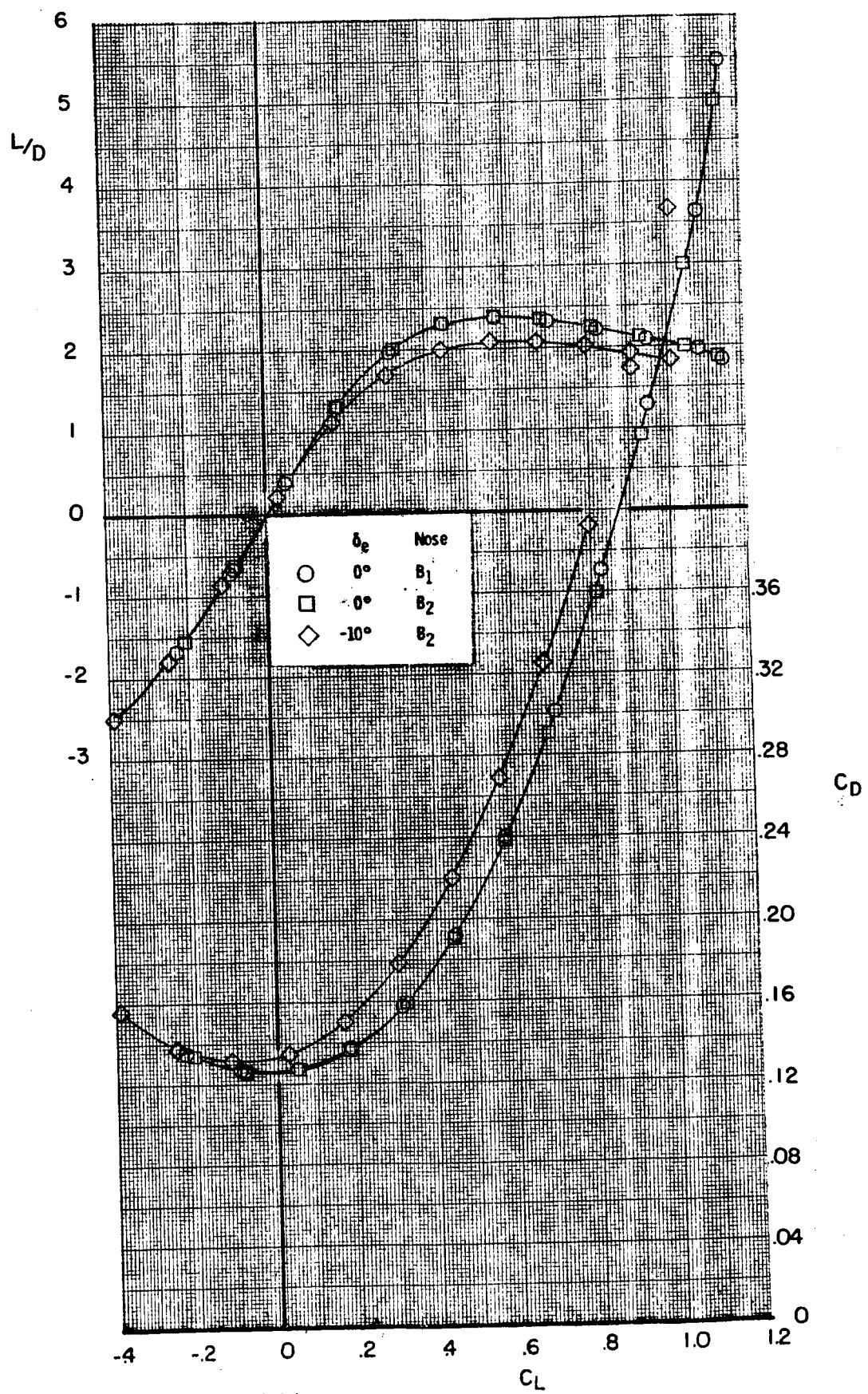
(c) Concluded

Figure 4. - Continued.



(d)  $M = 0.98$

Figure 4. - Continued.



(d) Concluded  
Figure 4. - Continued.

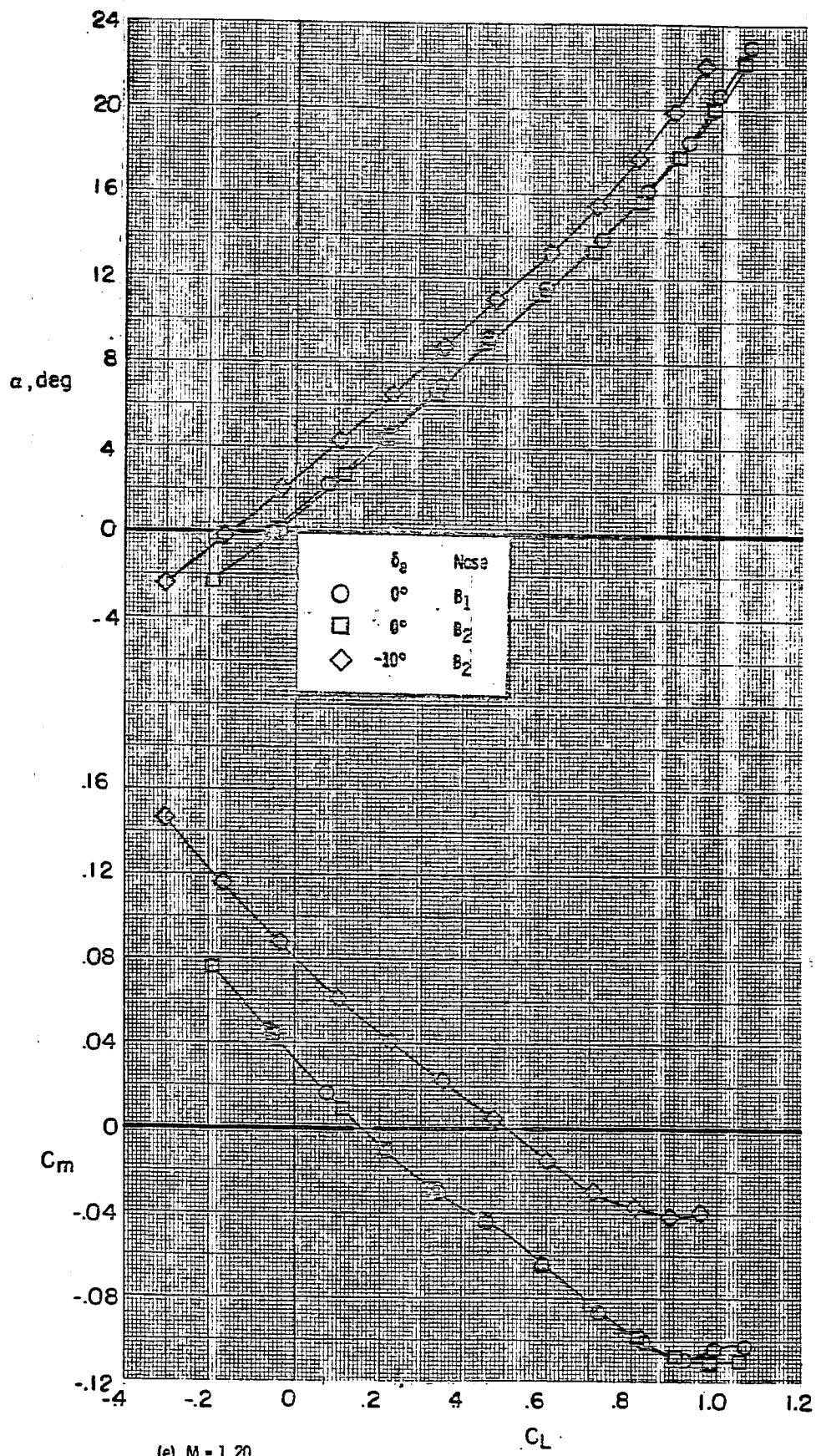
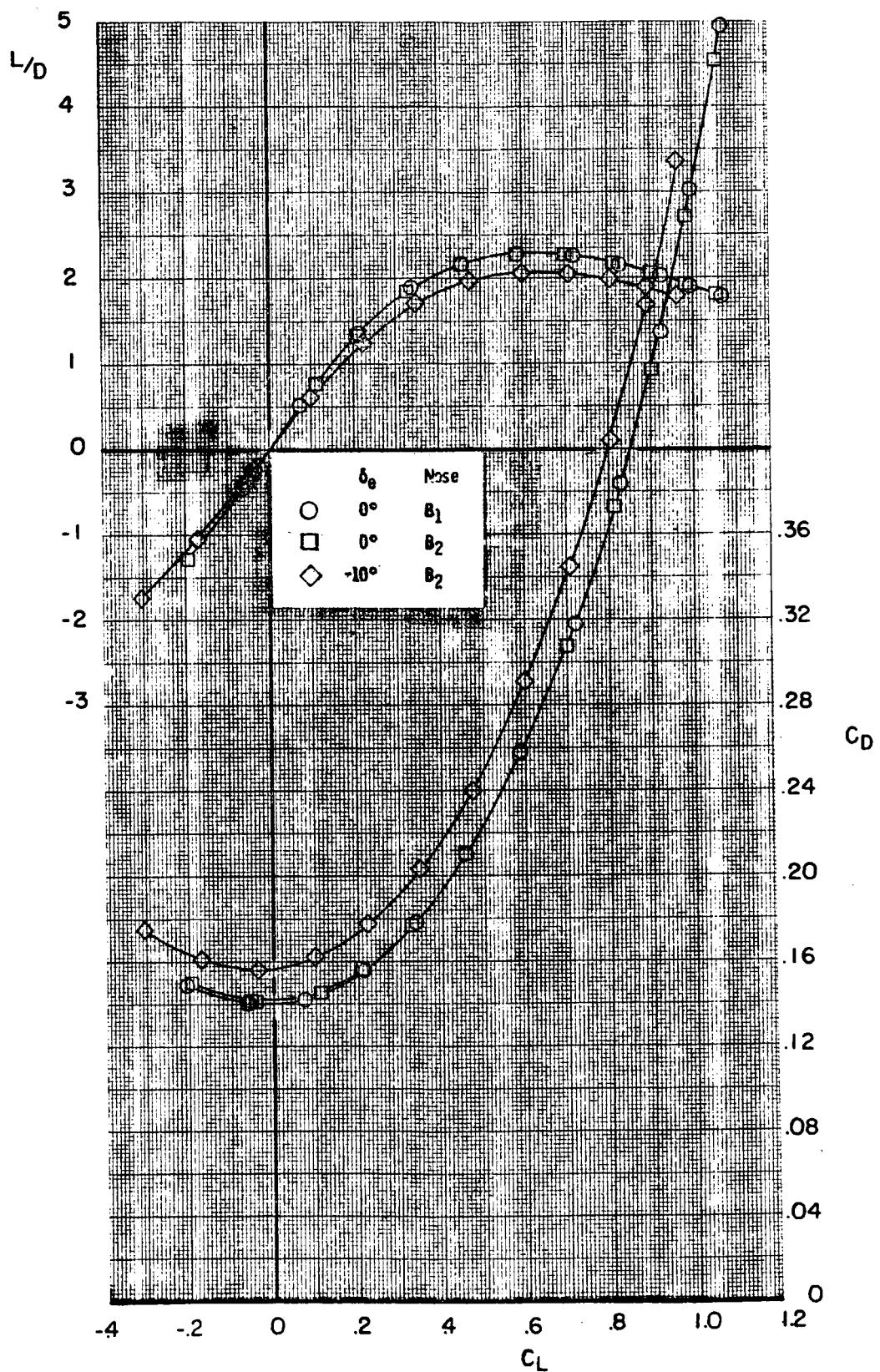


Figure 4. - Continued.



(e) Concluded

Figure 4. - Concluded.

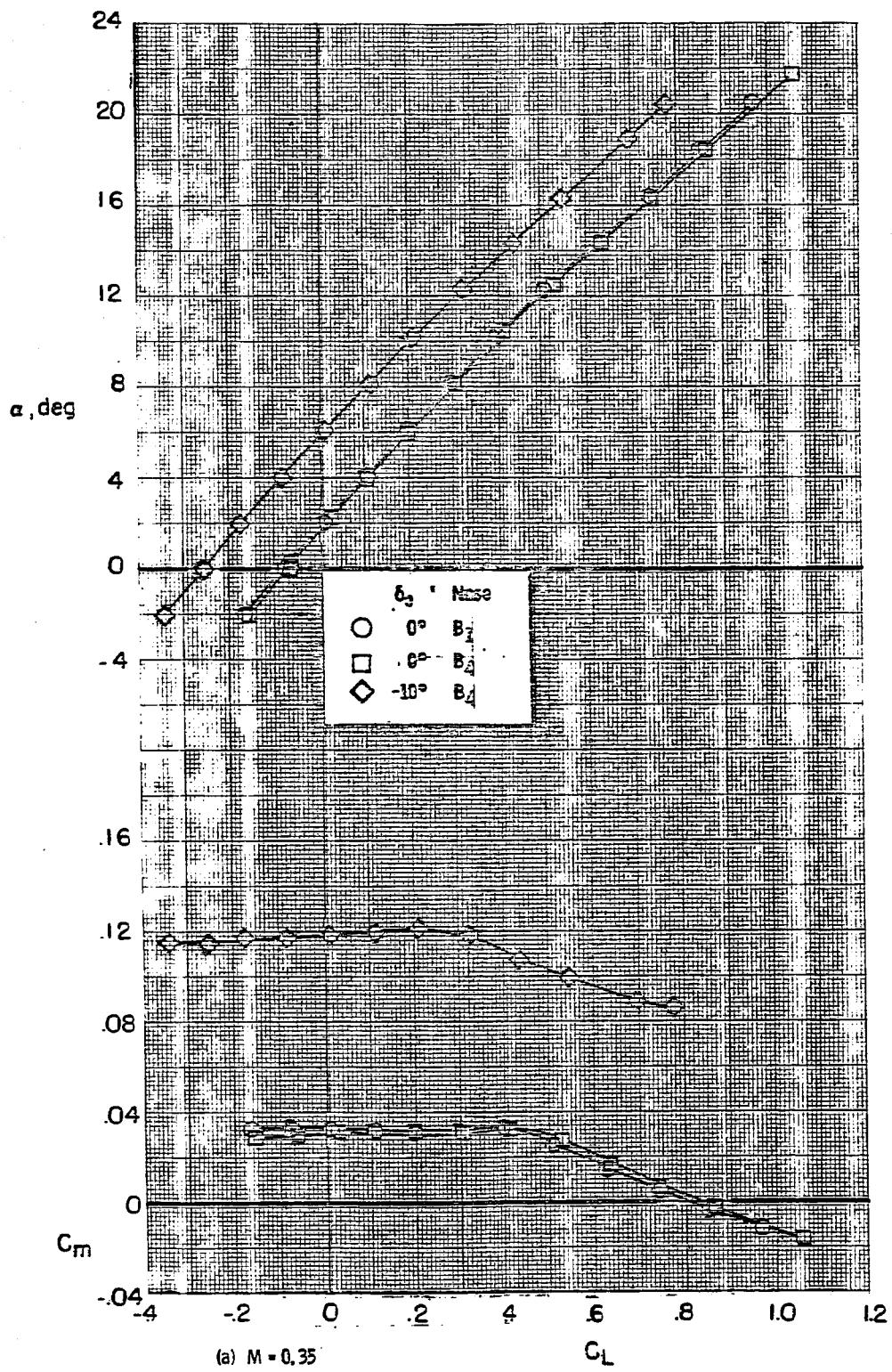
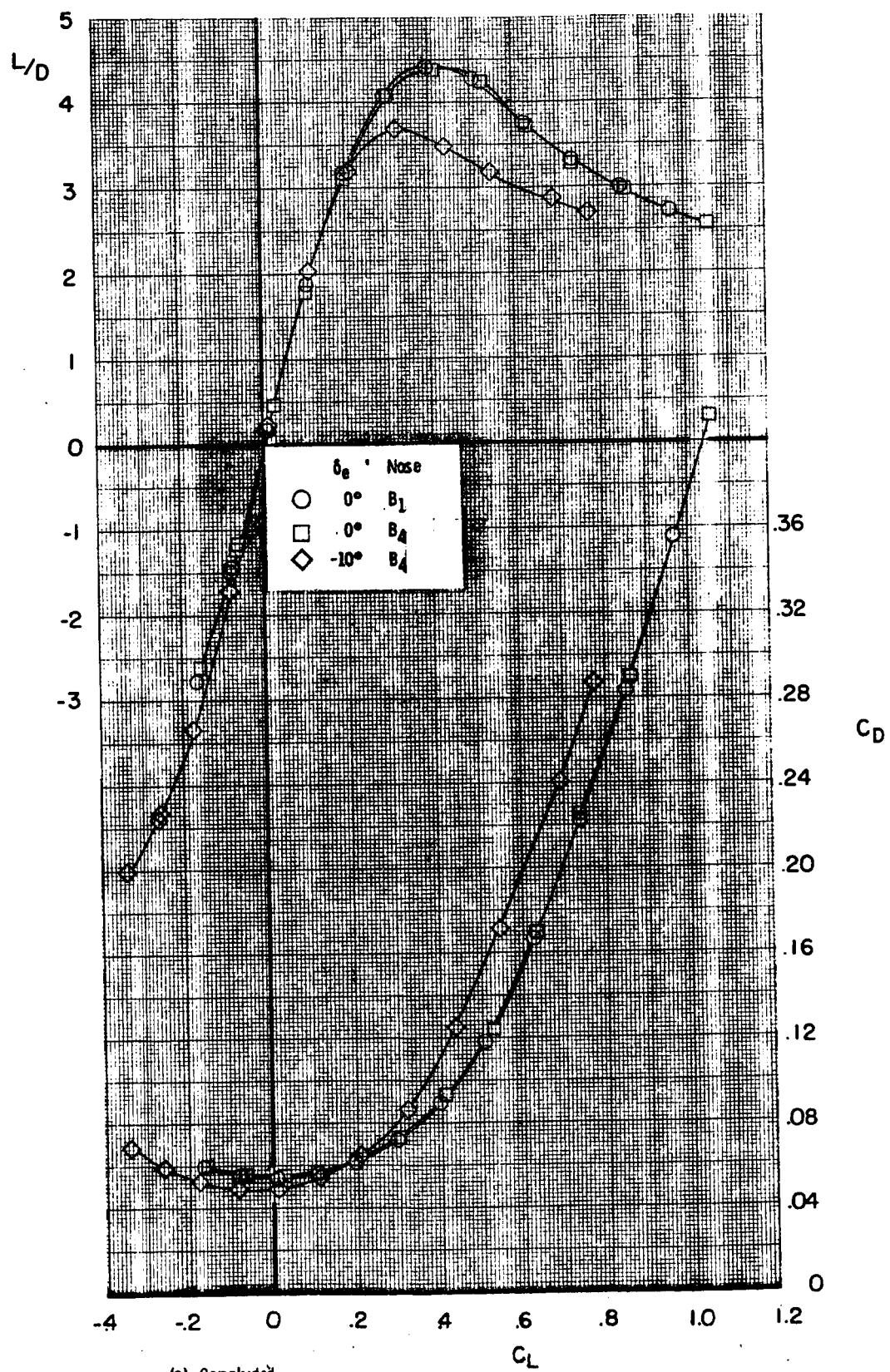


Figure 5. - Effect of fuselage forebody  $B_3$  on the longitudinal aerodynamic characteristics for configuration  $B_1WVS_Q^{EF}$ ;  $\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .



(a) Concluded.

Figure 5. - Continued.

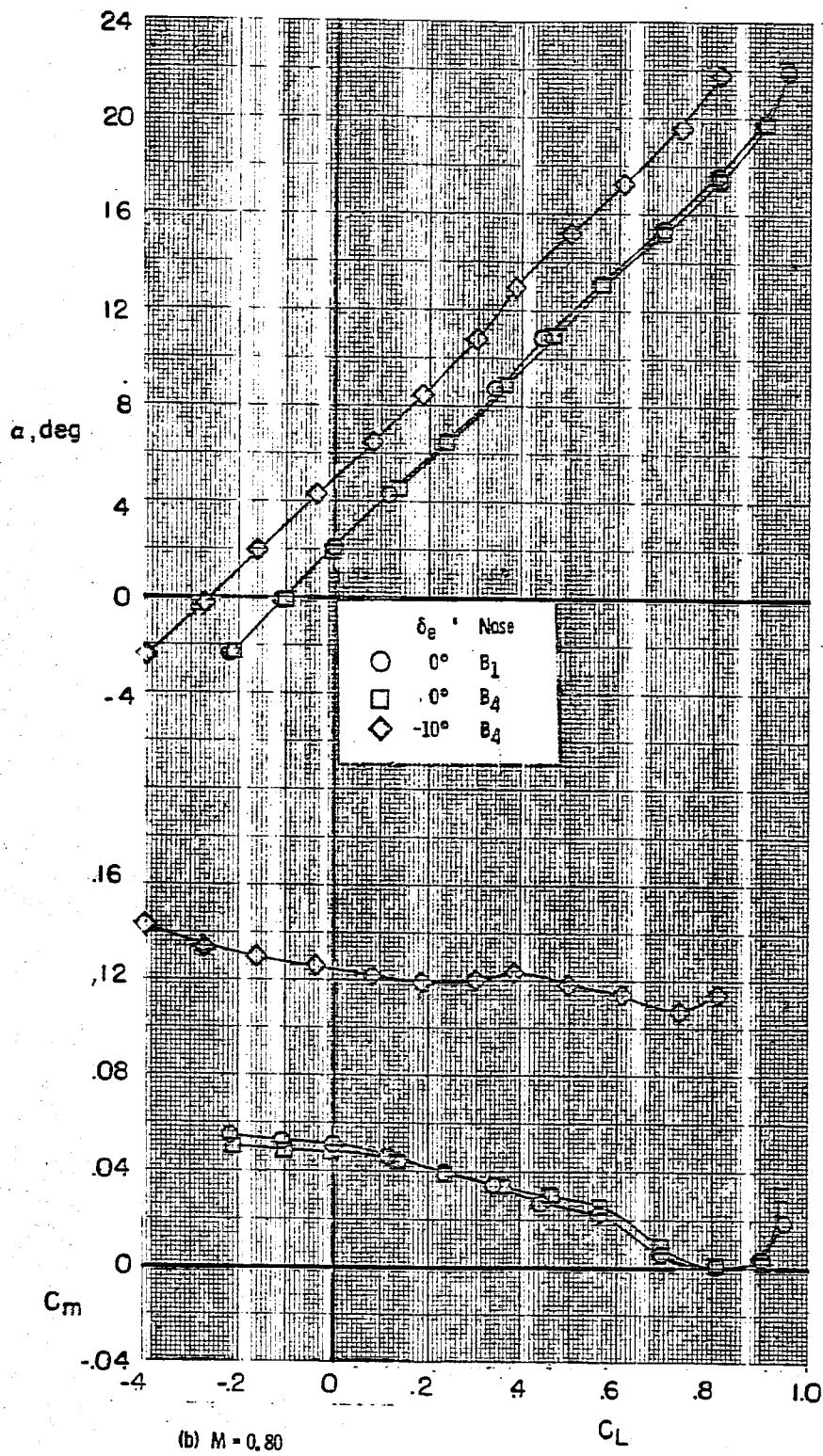
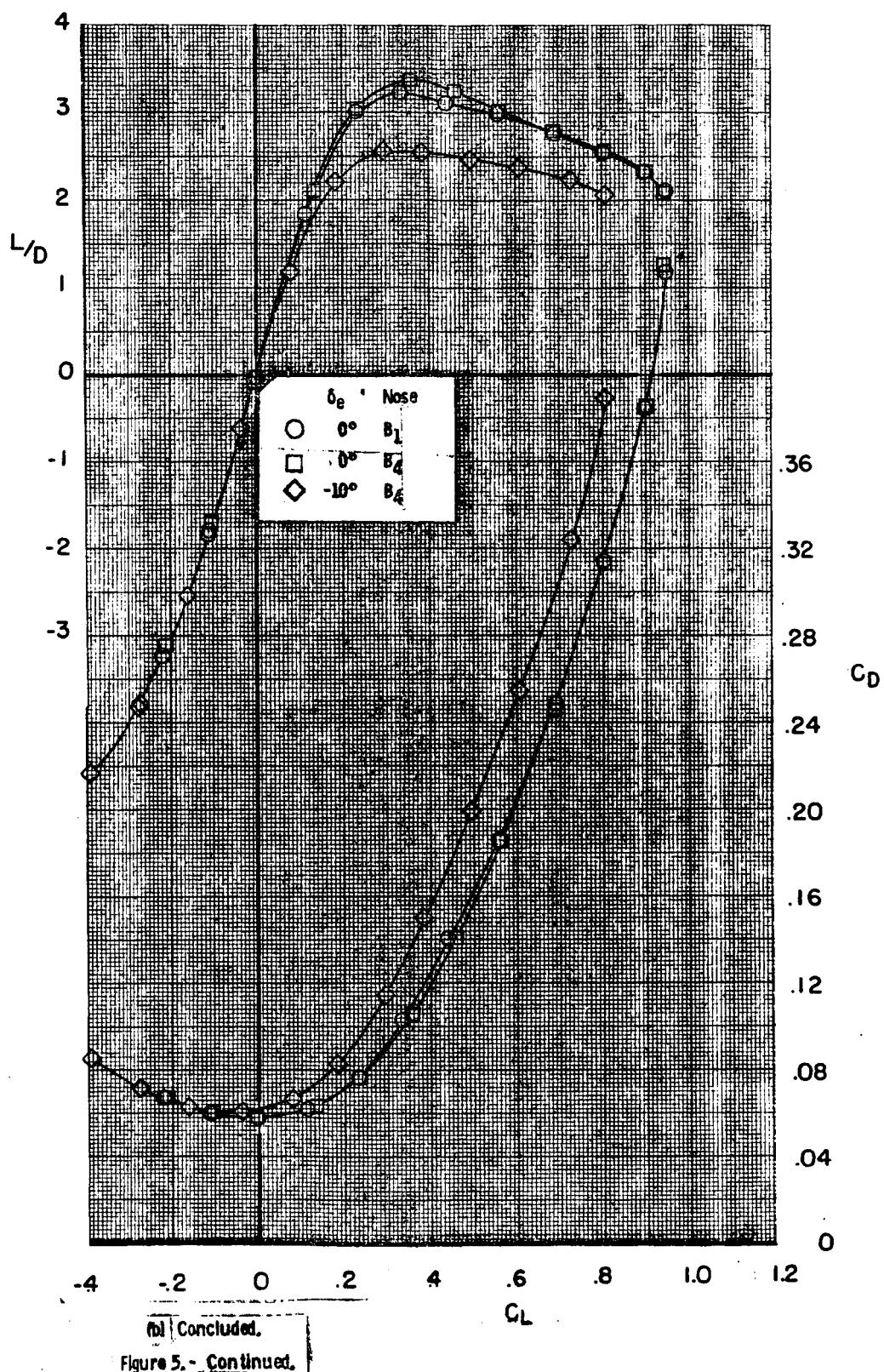
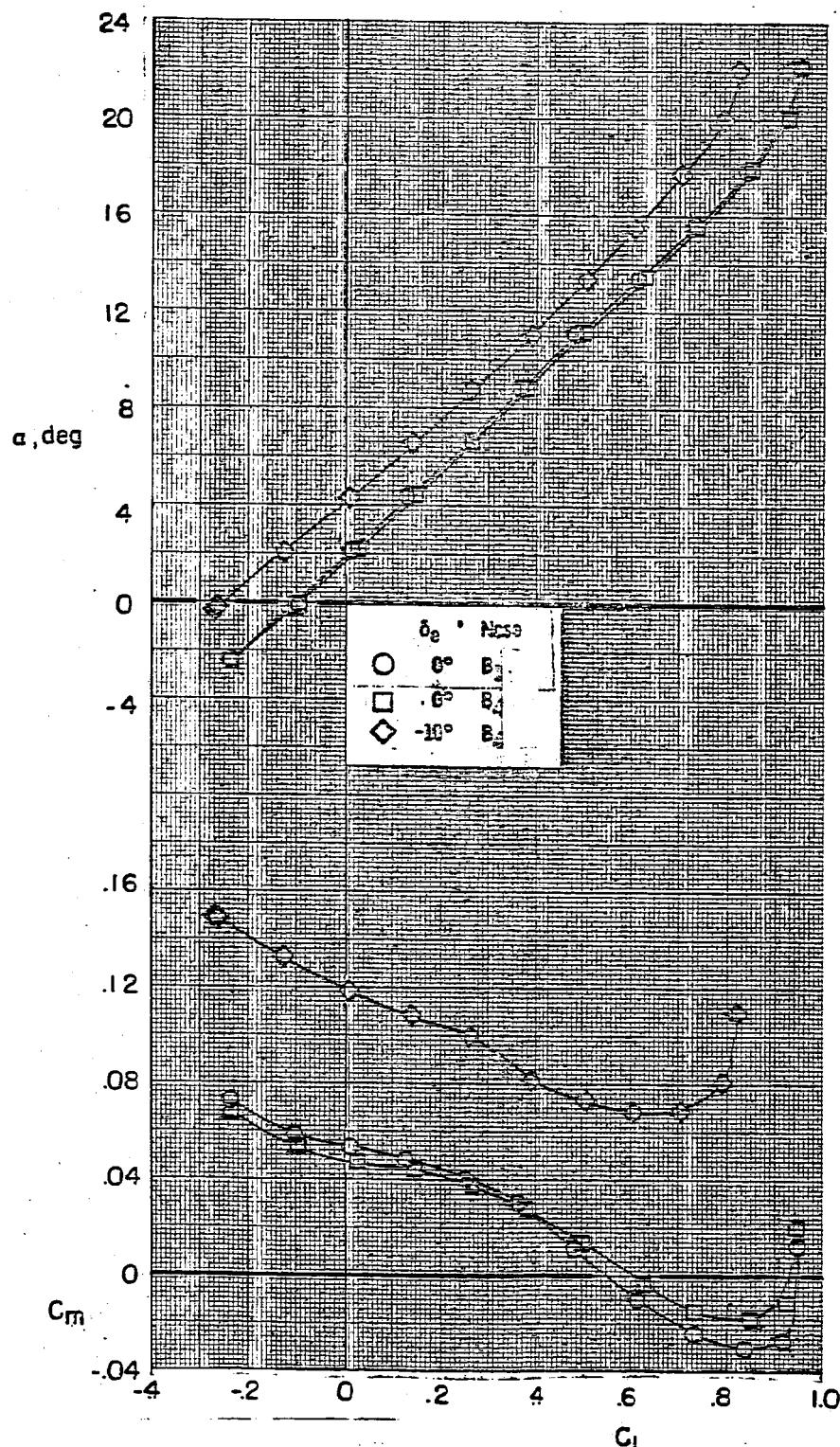


Figure 5.- Continued.

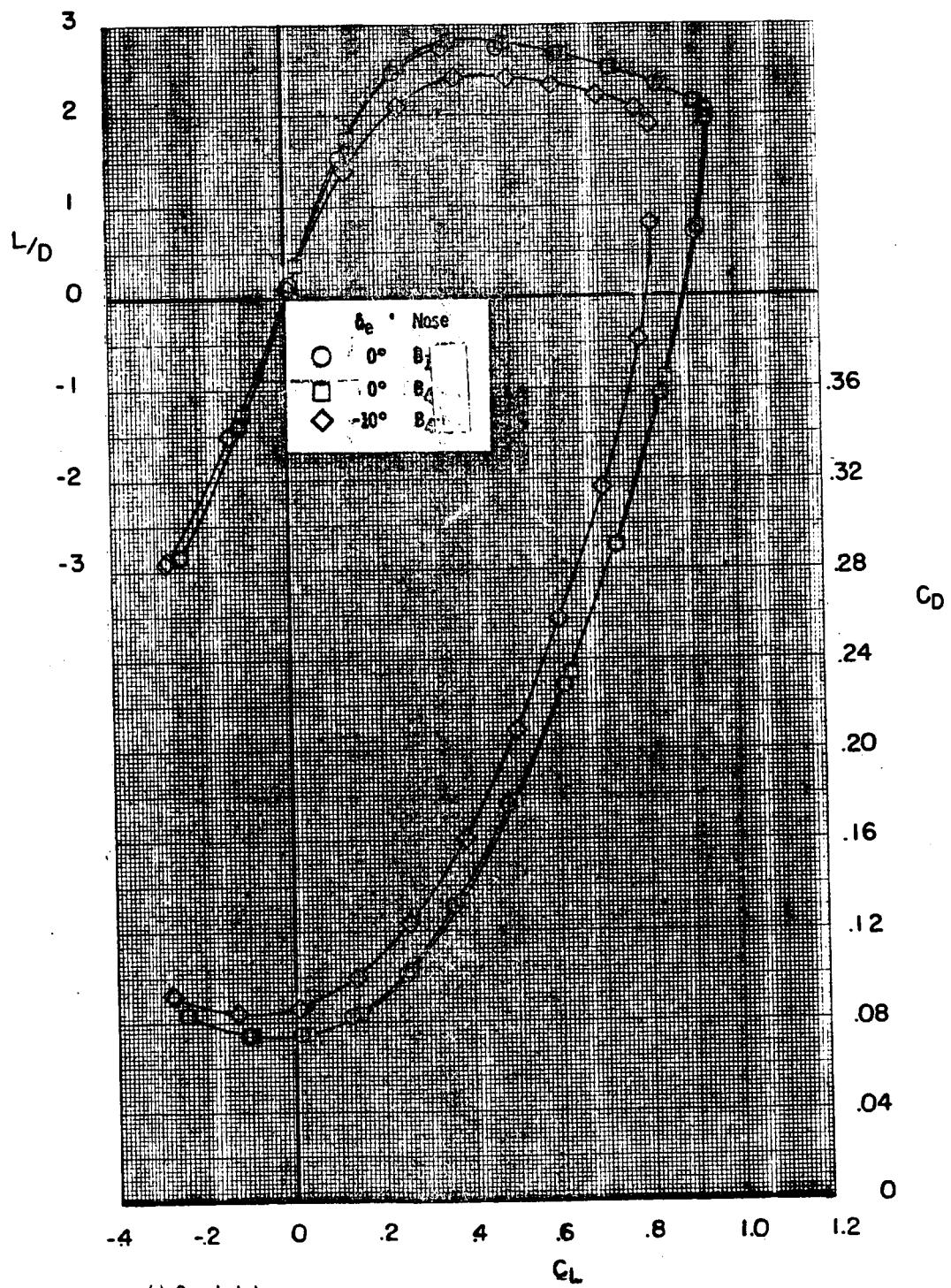


(b) Concluded.

Figure 5. - Continued.

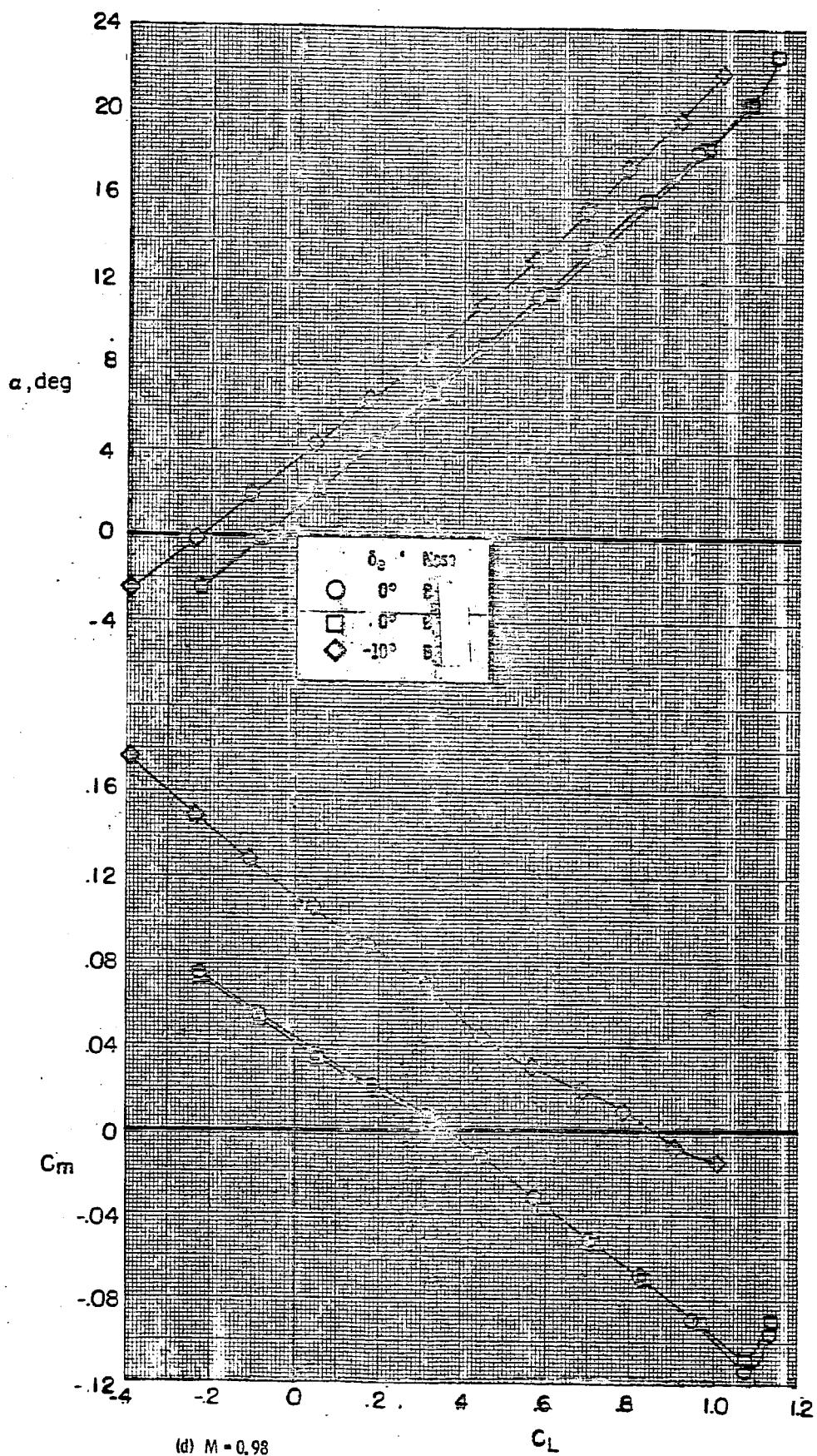


(c)  $M = 0.90$   
Figure 5. - Continued.



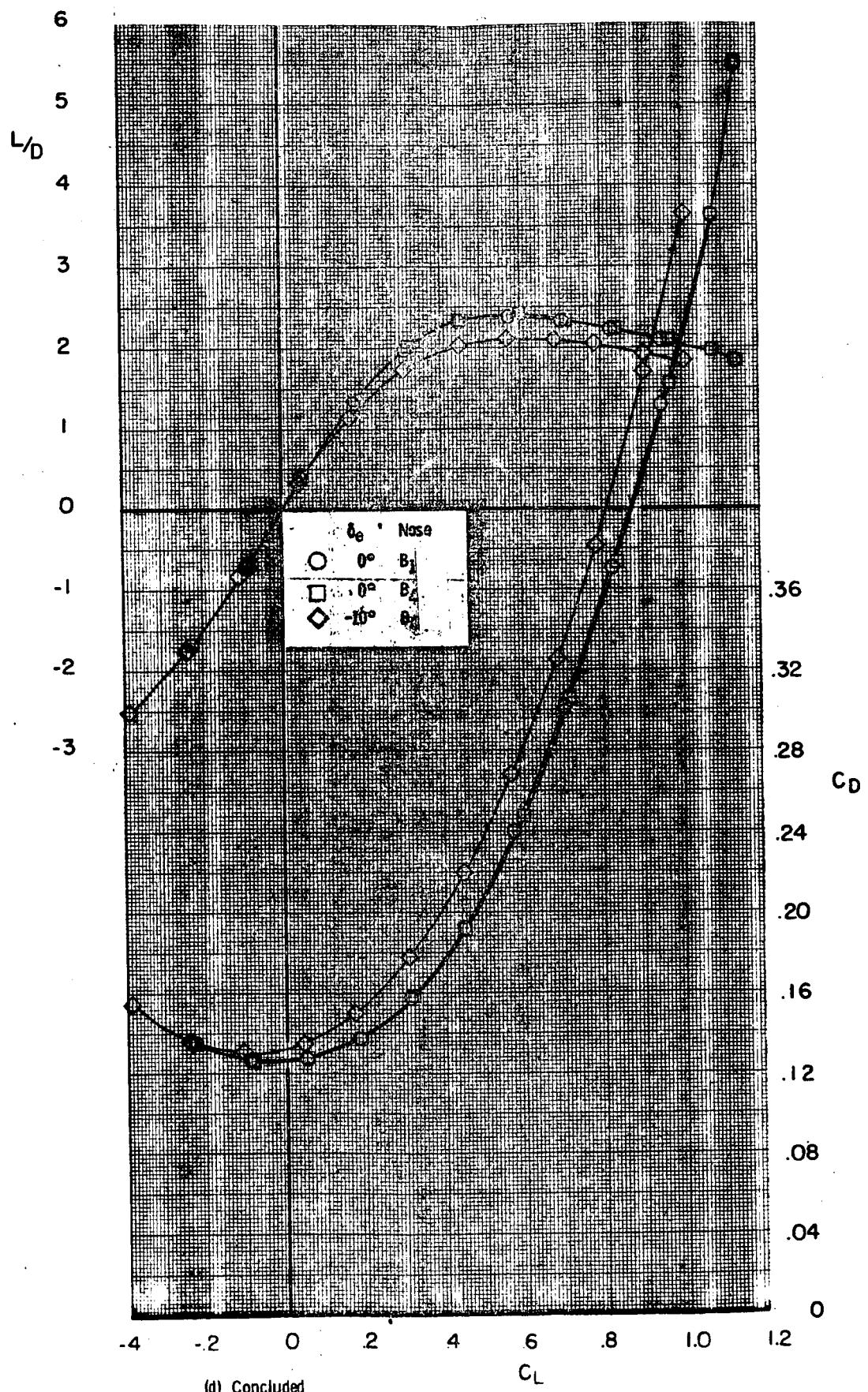
(c) Concluded.

Figure 5. - Continued.



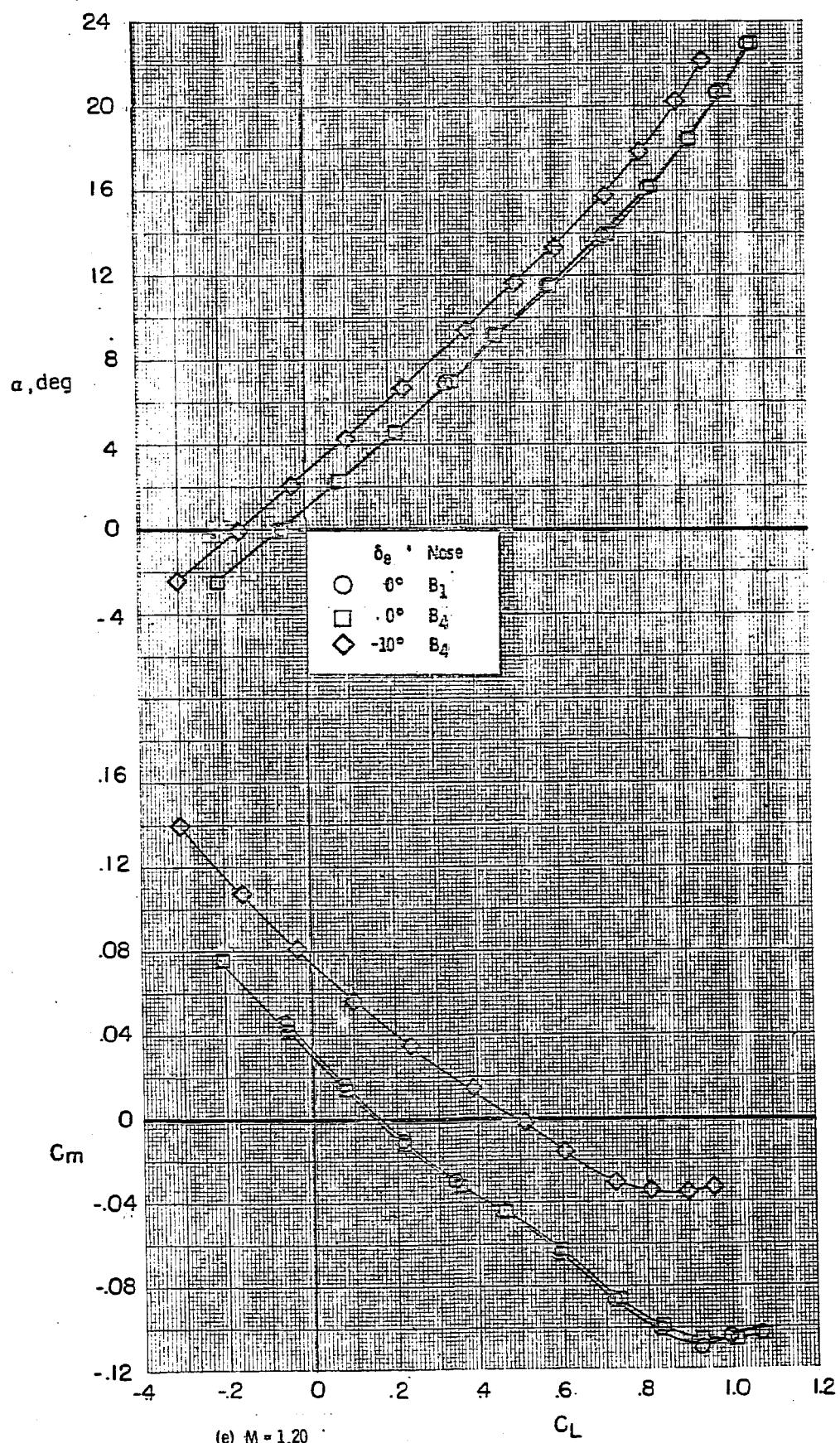
(d)  $M = 0.98$

Figure 5. - Continued.



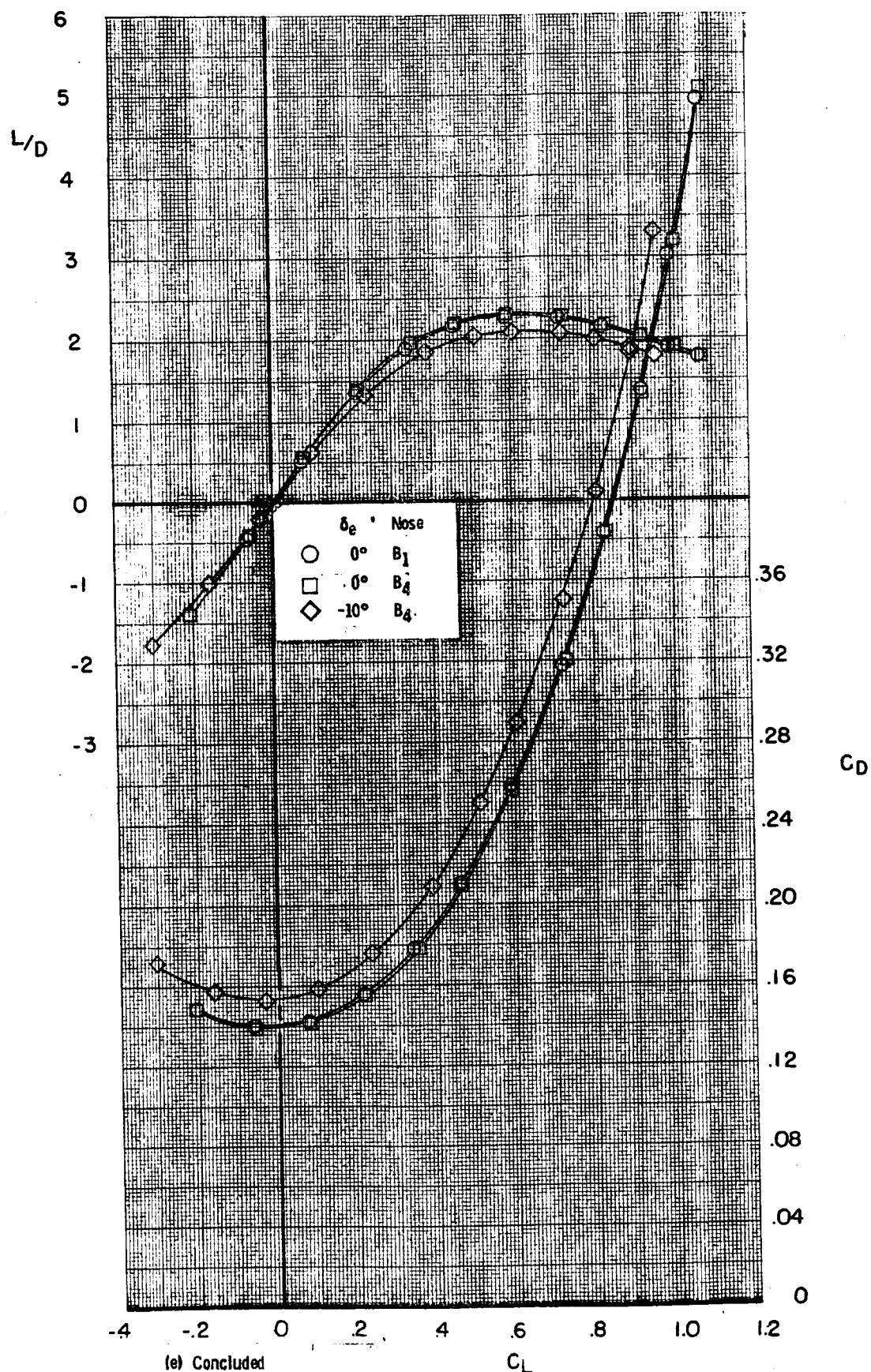
(d) Concluded

Figure 5. - Continued.



(e)  $M = 1.20$

Figure 5.- Continued.



(e) Concluded

Figure 5. - Concluded.

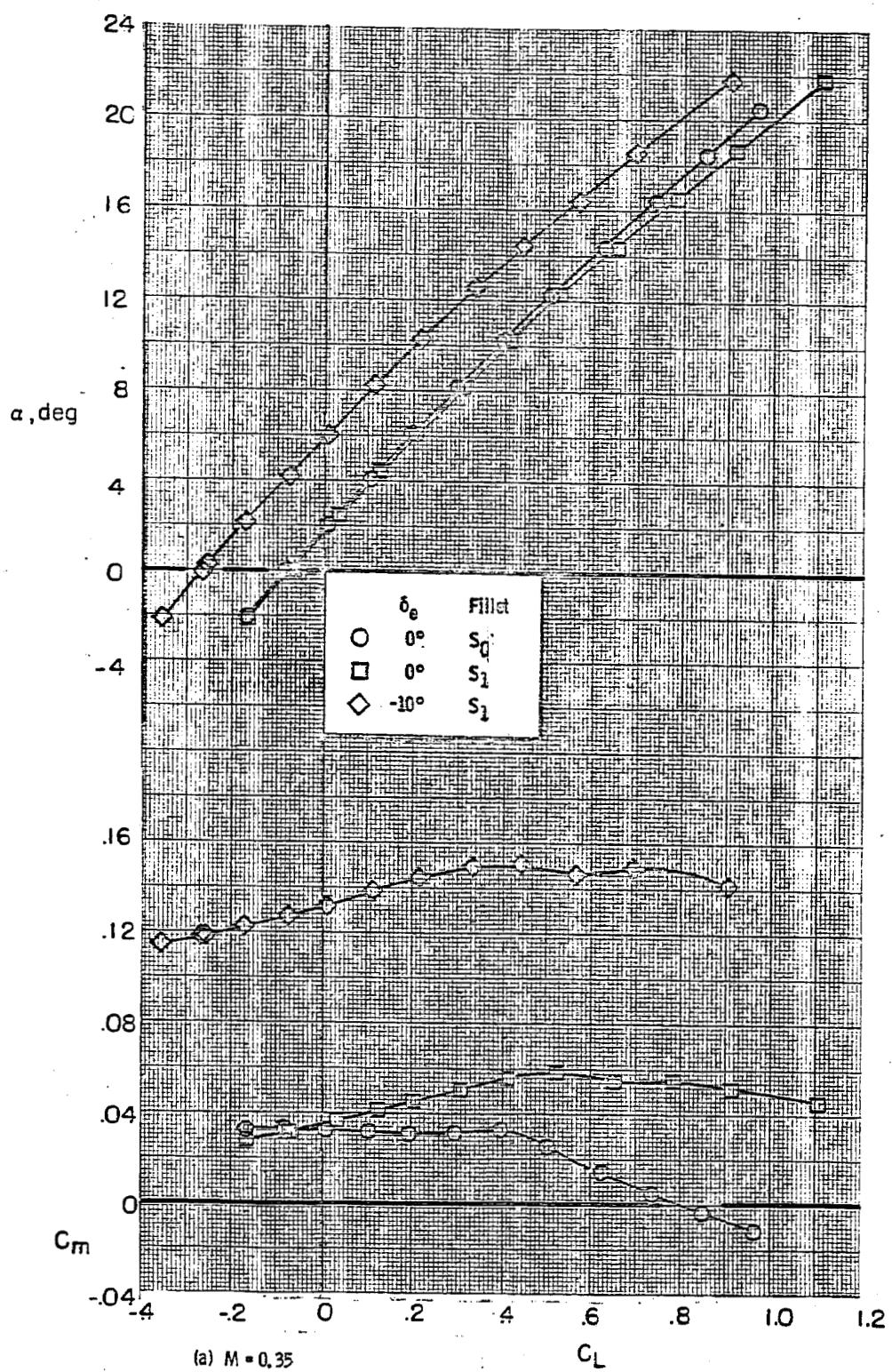
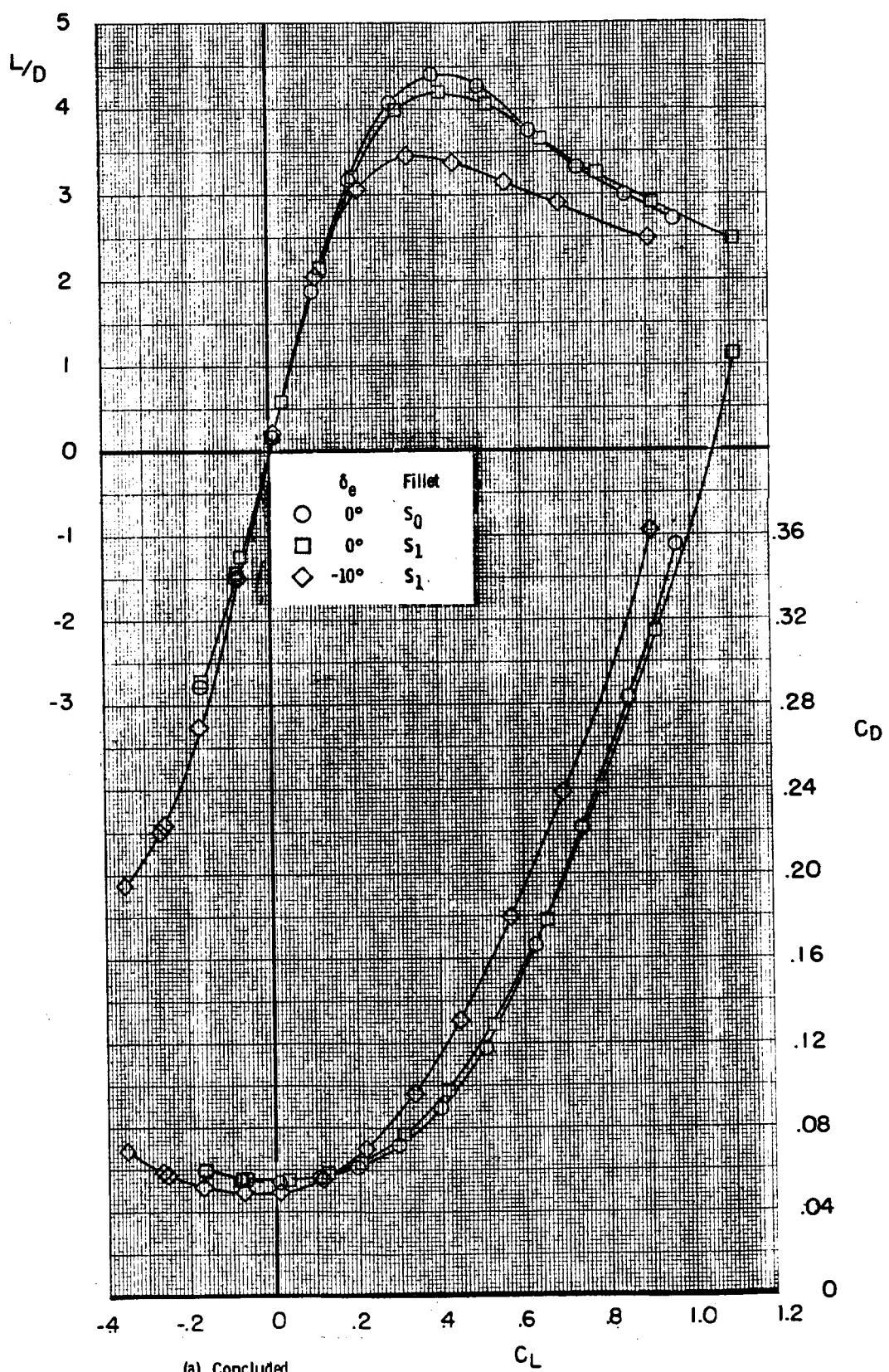


Figure 6.- Effect of planform fillet S<sub>1</sub> on the longitudinal aerodynamic characteristics of configuration B1W/S<sub>0</sub>EF.  $\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .



(a) Concluded  
Figure 6.- Continued.

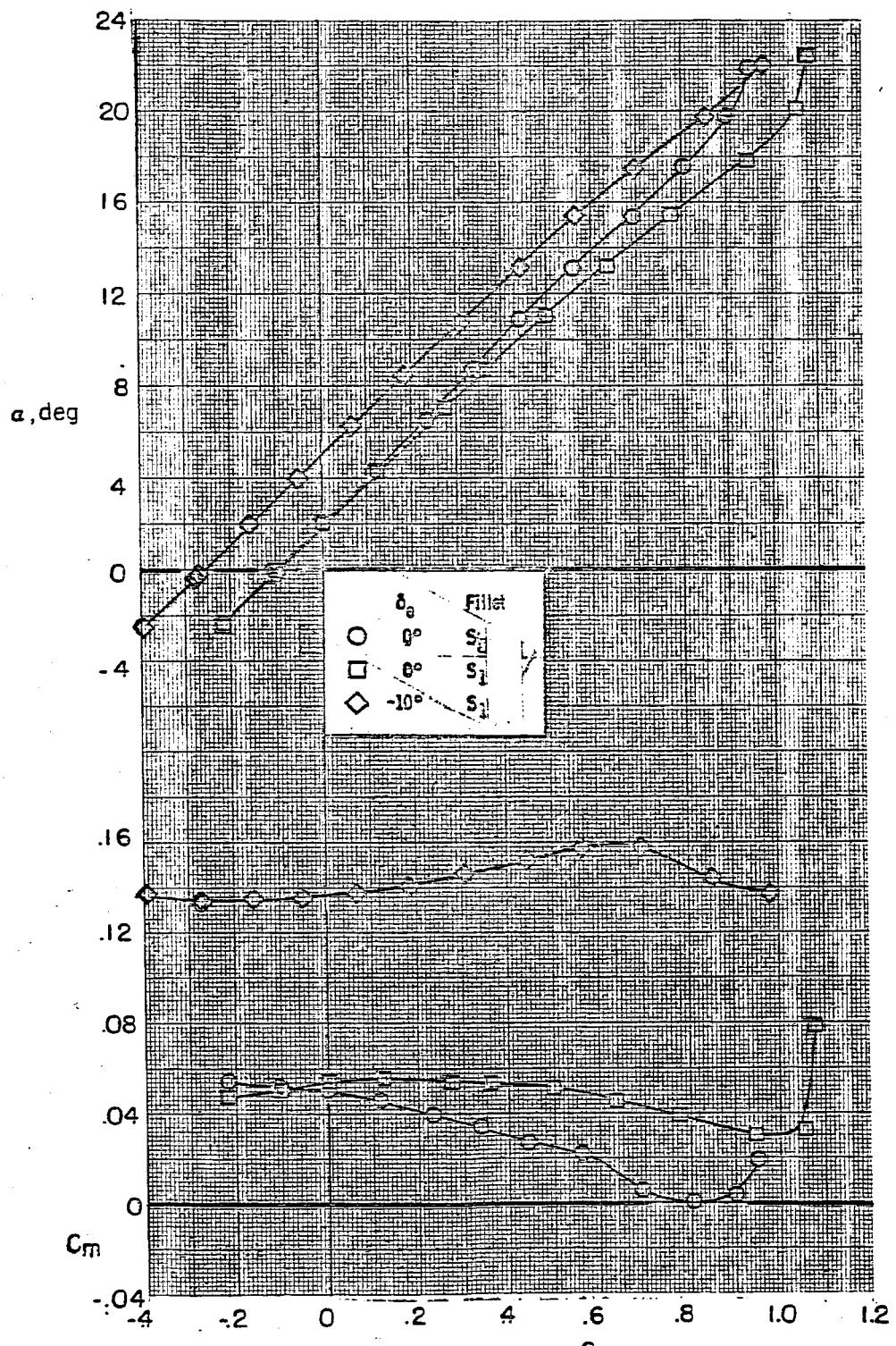
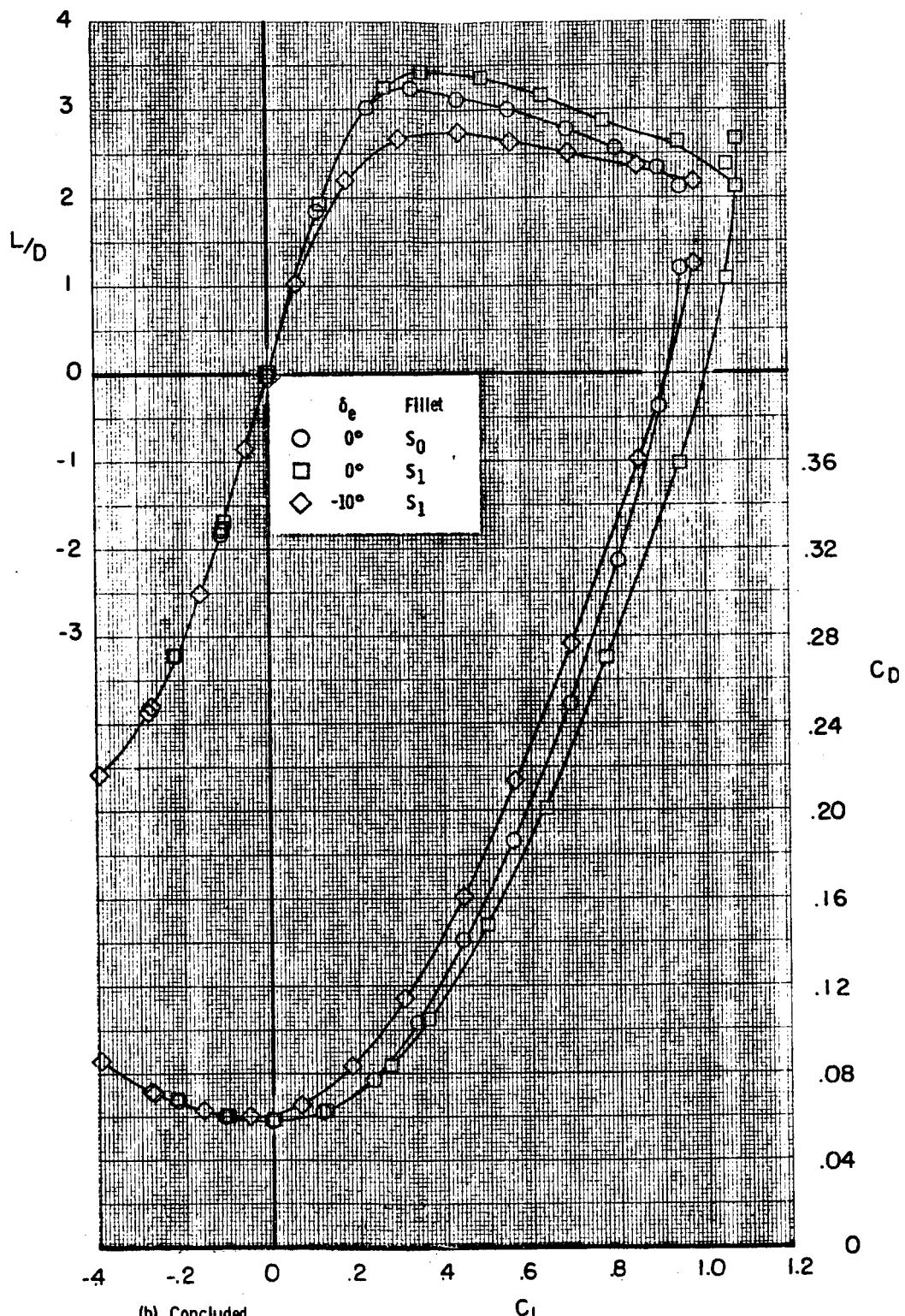


Figure 6. - Continued.



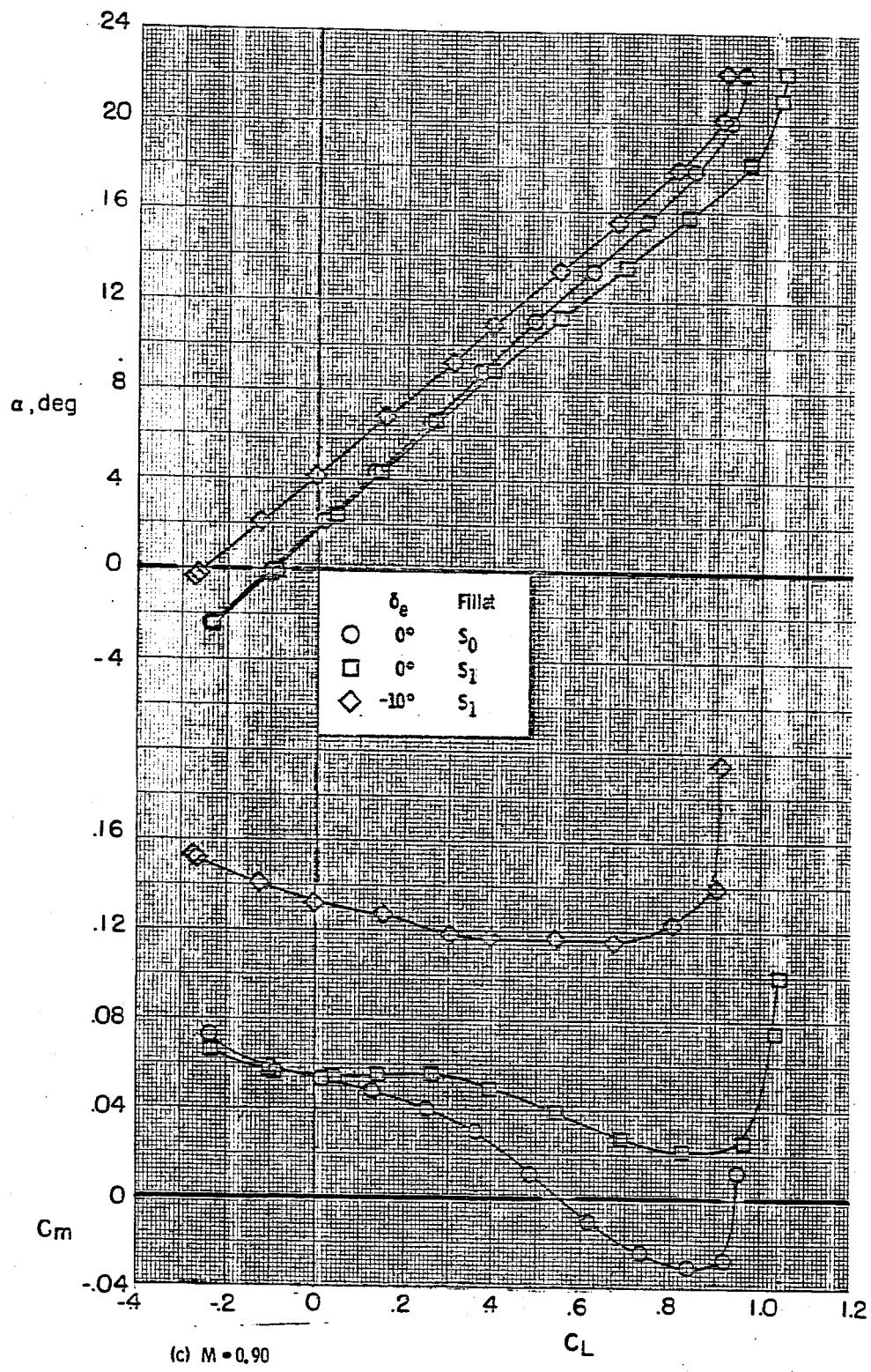
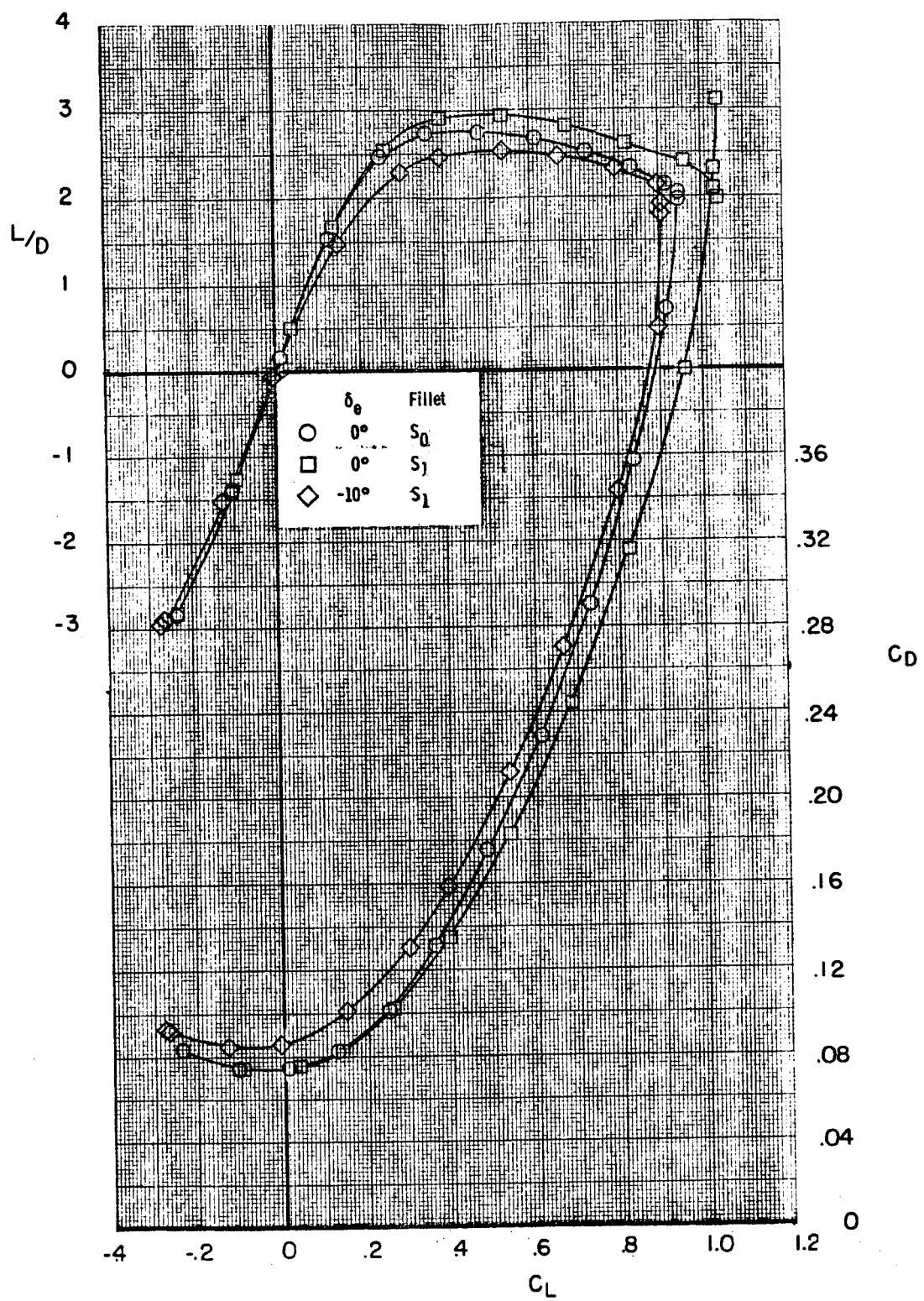
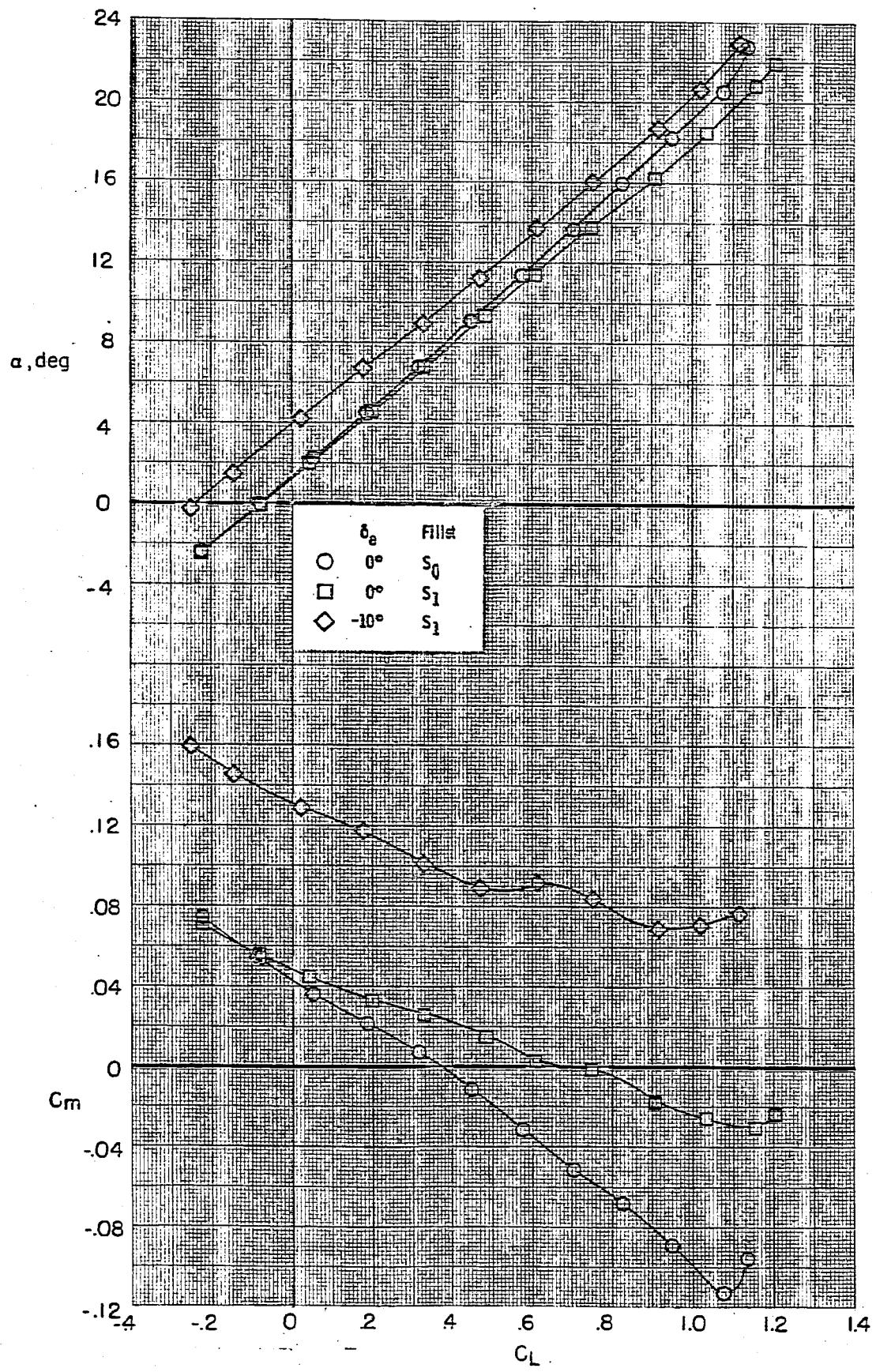


Figure 6.- Continued.



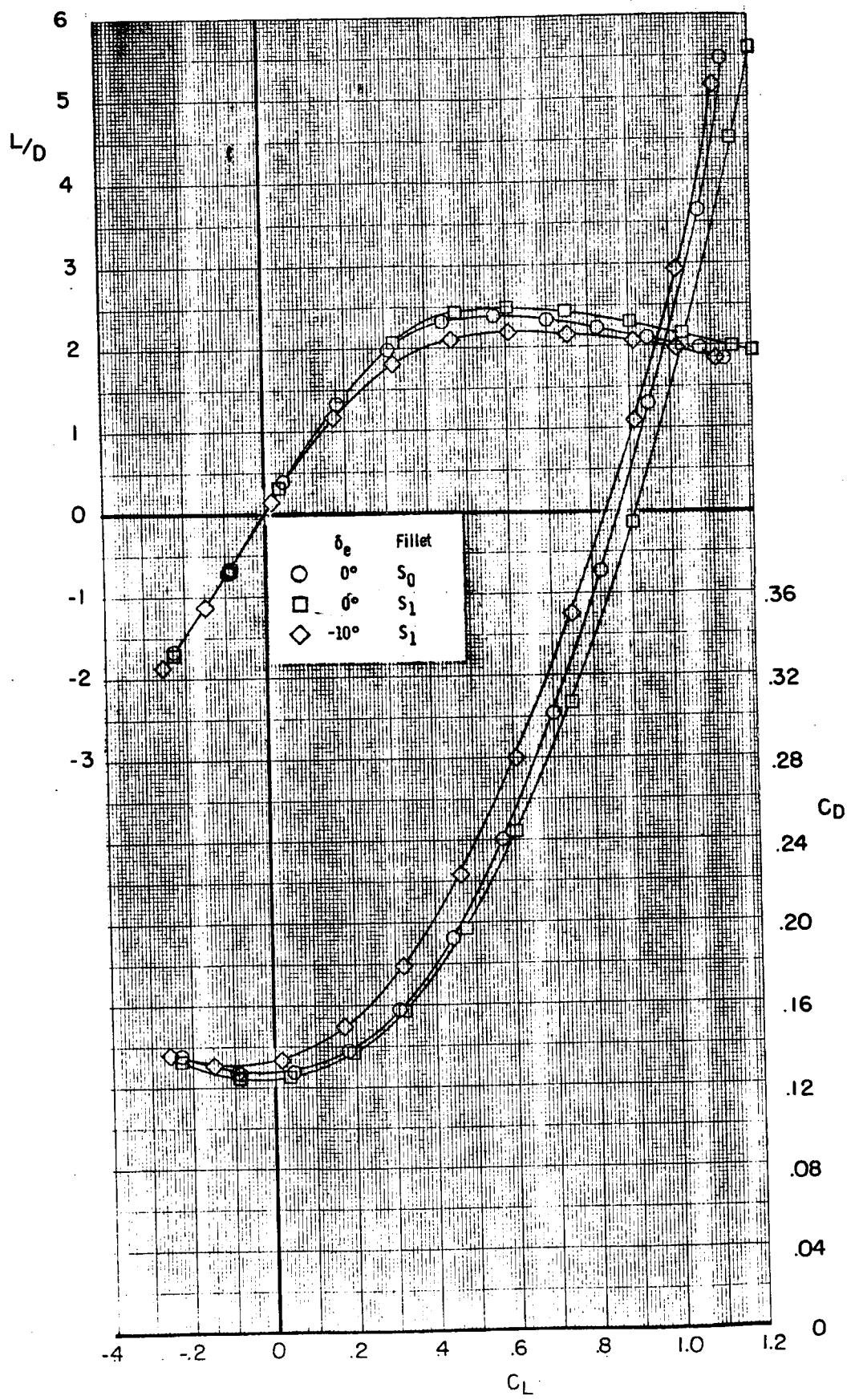
(c) Concluded

Figure 6. - Continued.



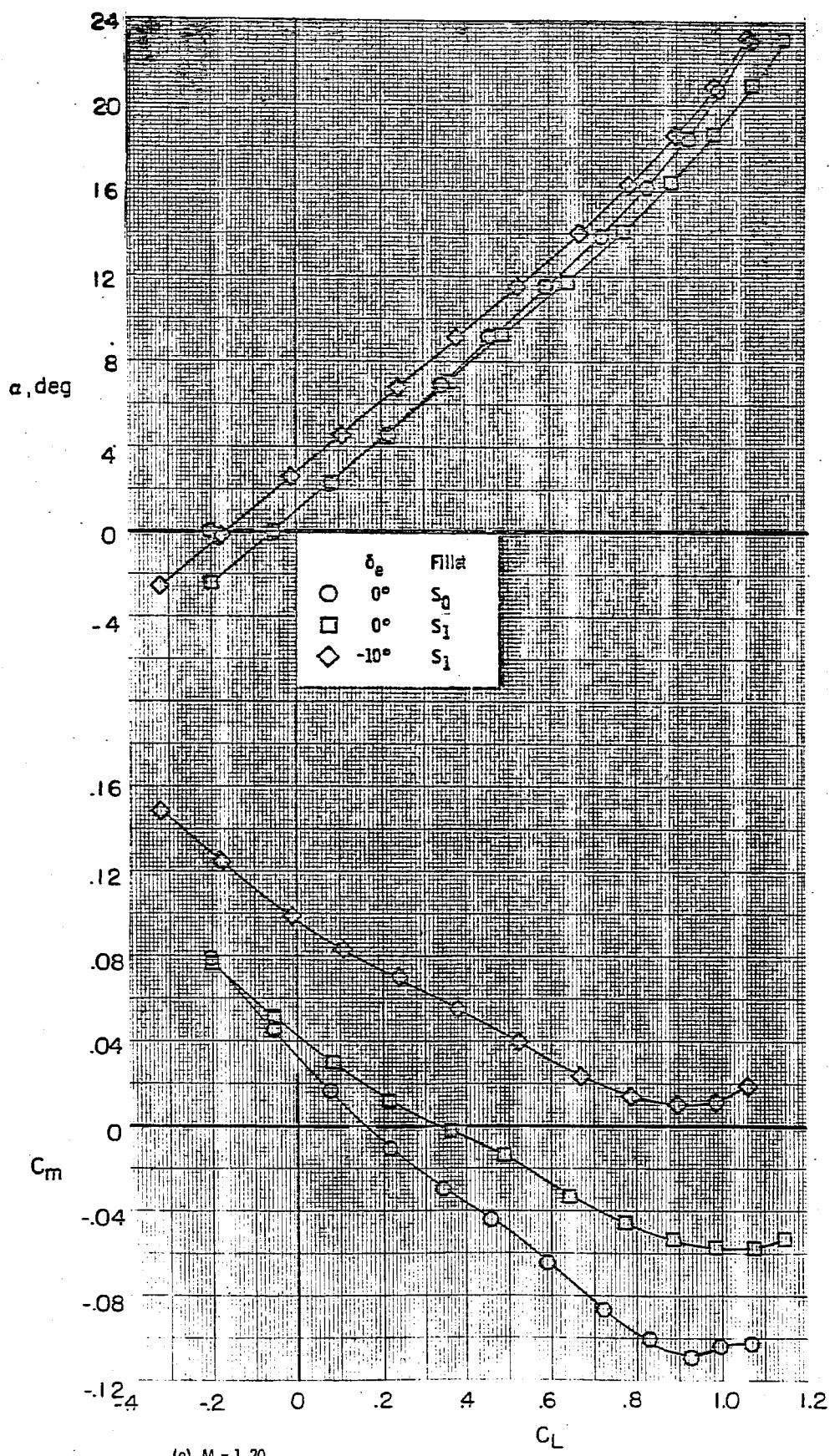
(d)  $M = 0.98$

Figure 6. - Continued.



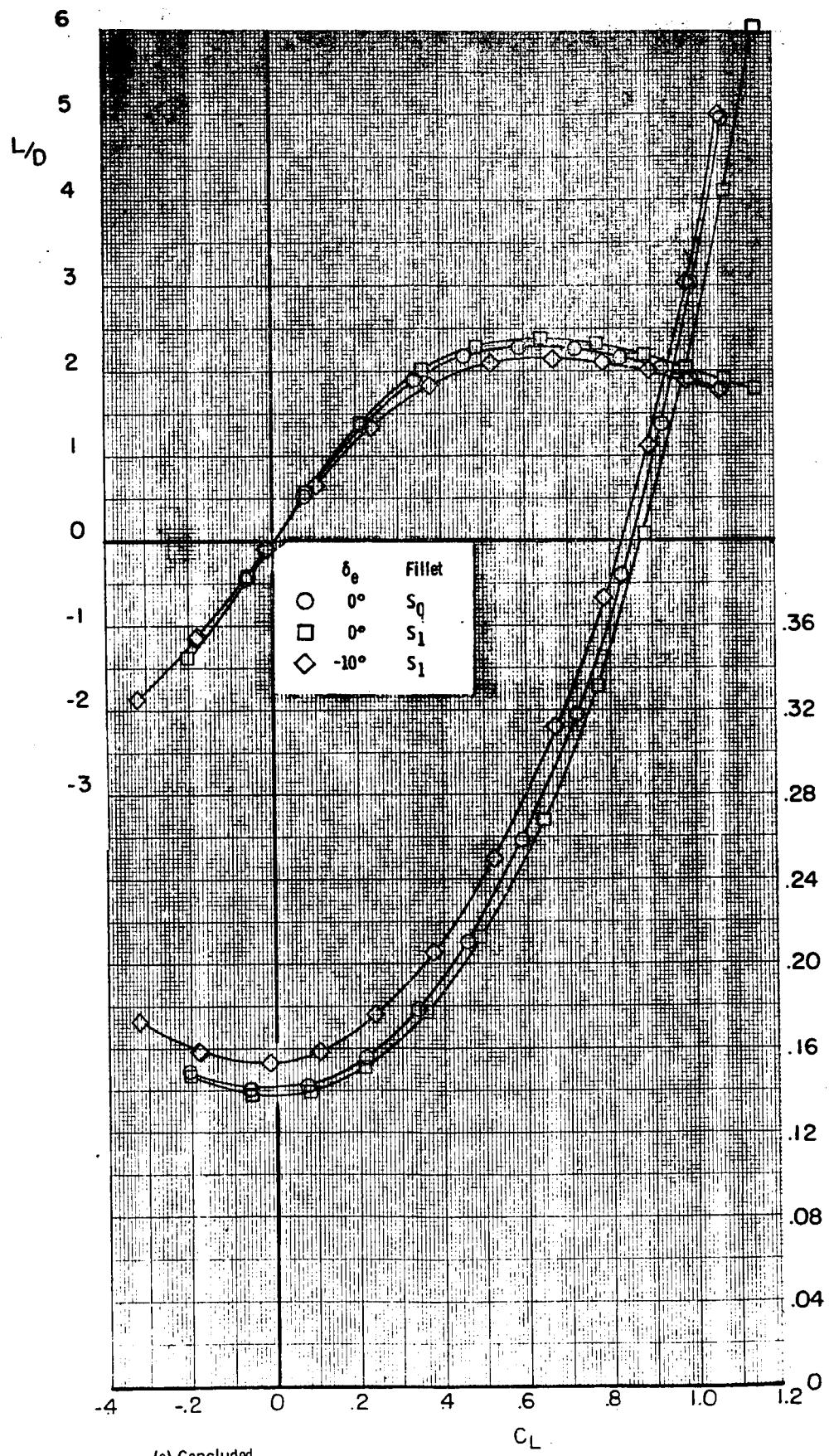
(d) Concluded

Figure 6.- Continued.



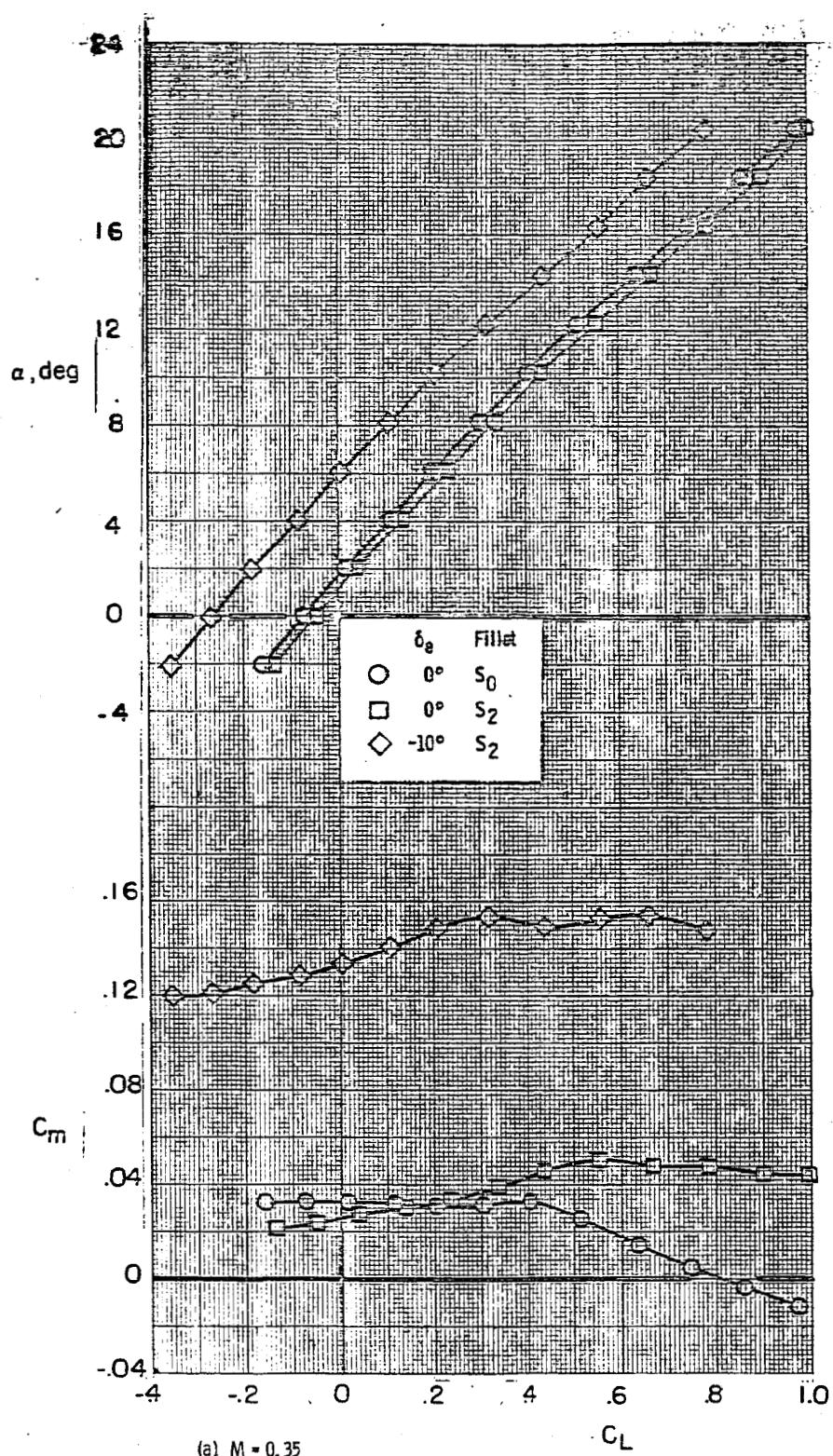
(e)  $M = 1.20$

Figure 6. - Continued.



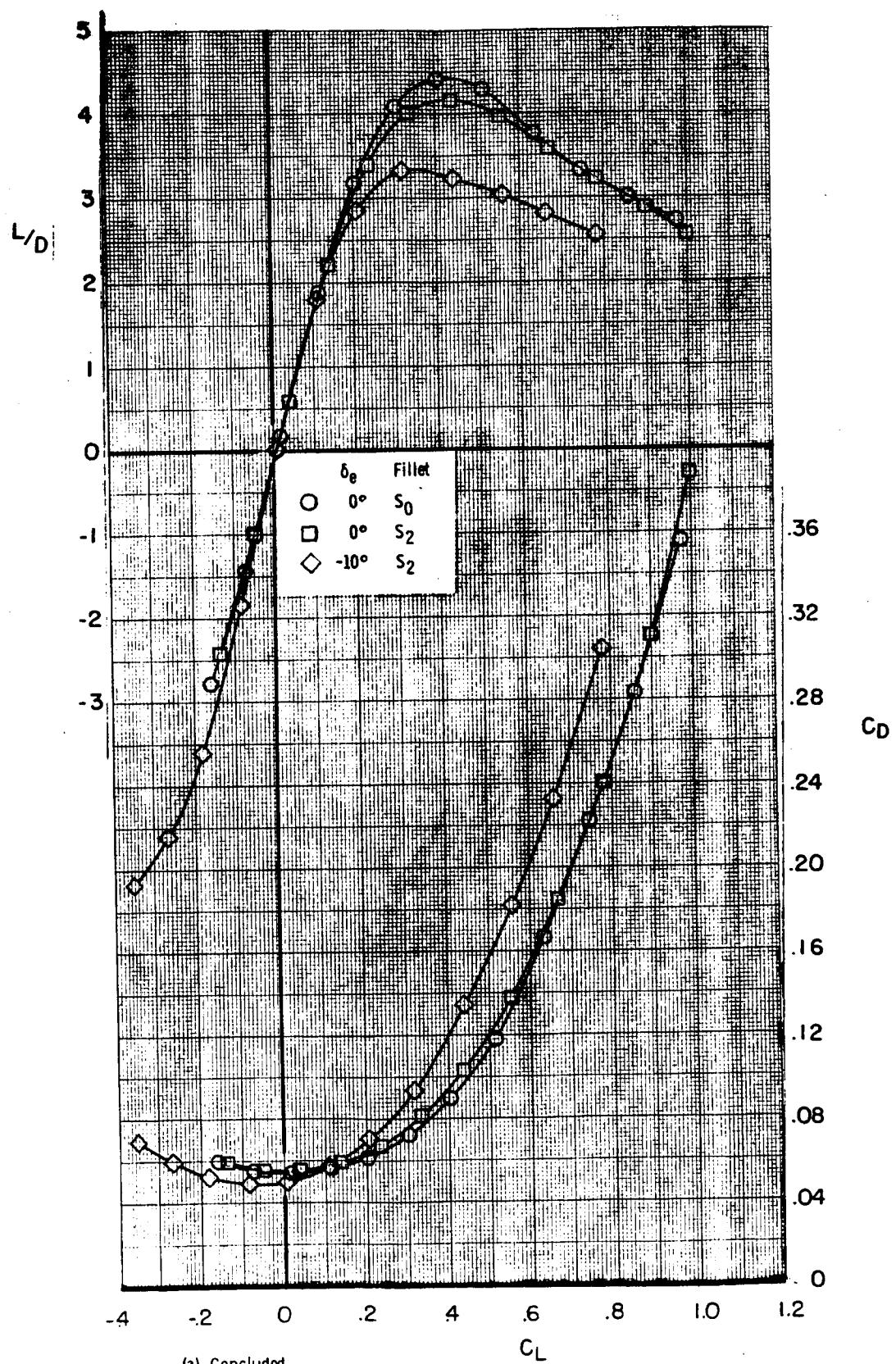
(e) Concluded

Figure 6.- Concluded.



(a)  $M = 0.35$

Figure 7. - Effect of planform fillet  $S_2$  on the longitudinal aerodynamic characteristics  
for B1WVS<sub>0</sub>EF.  $\delta_{BF} = -11.70$ ;  $\delta_{SB} = 0^0$ .



(a) Concluded

Figure 7. - Continued.

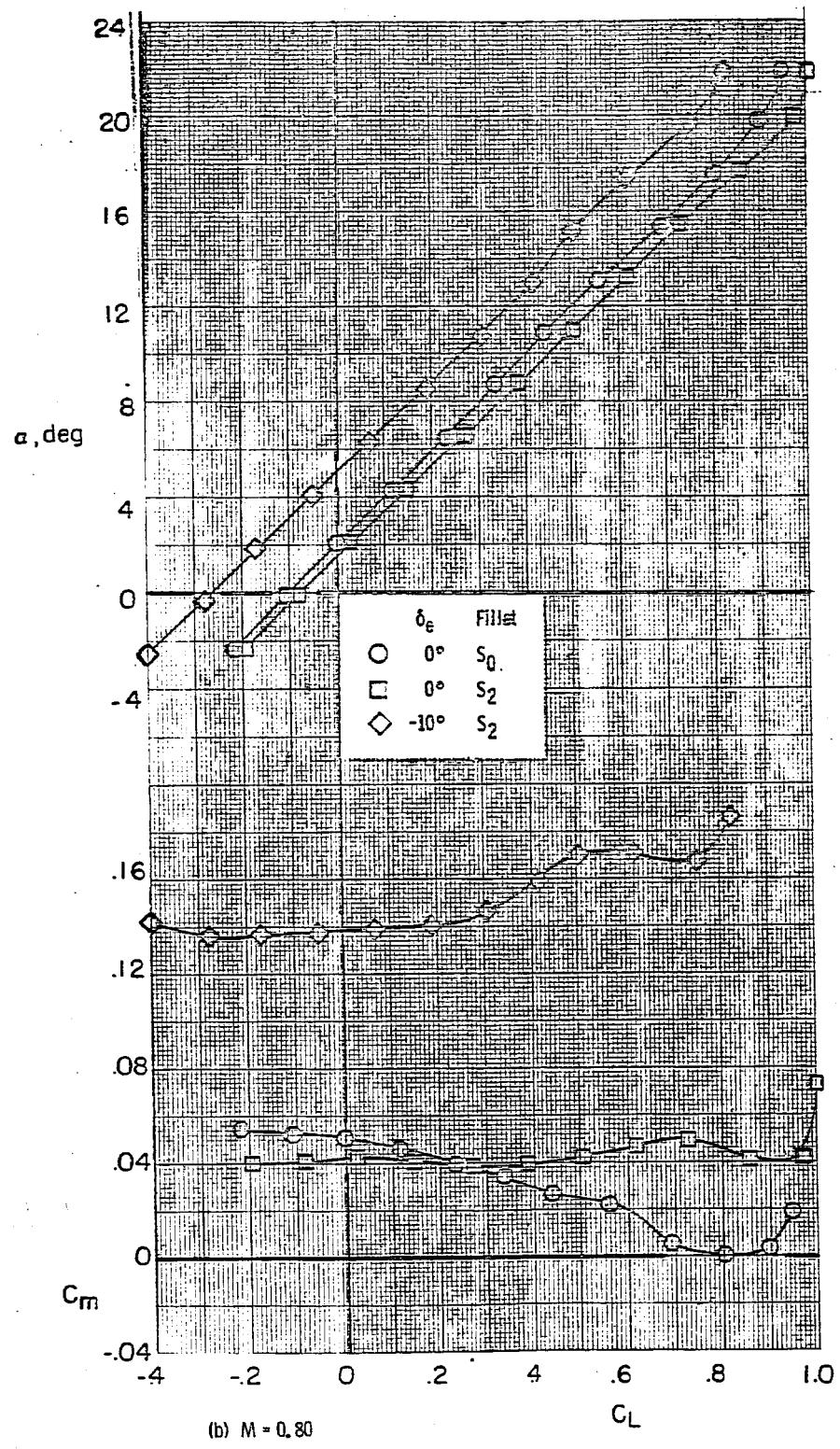
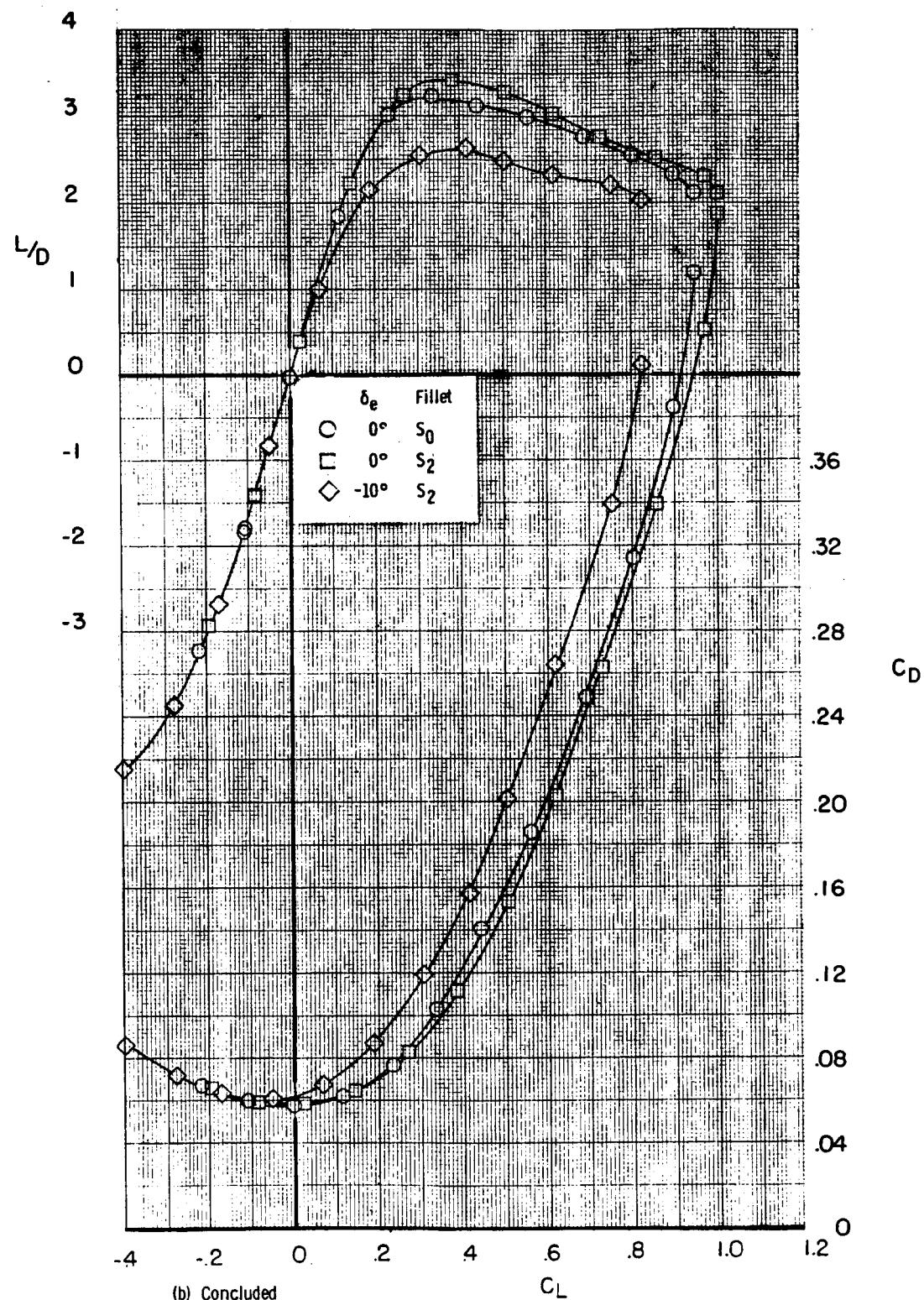


Figure 7. - Continued.



(b) Concluded

Figure 7. - Continued.

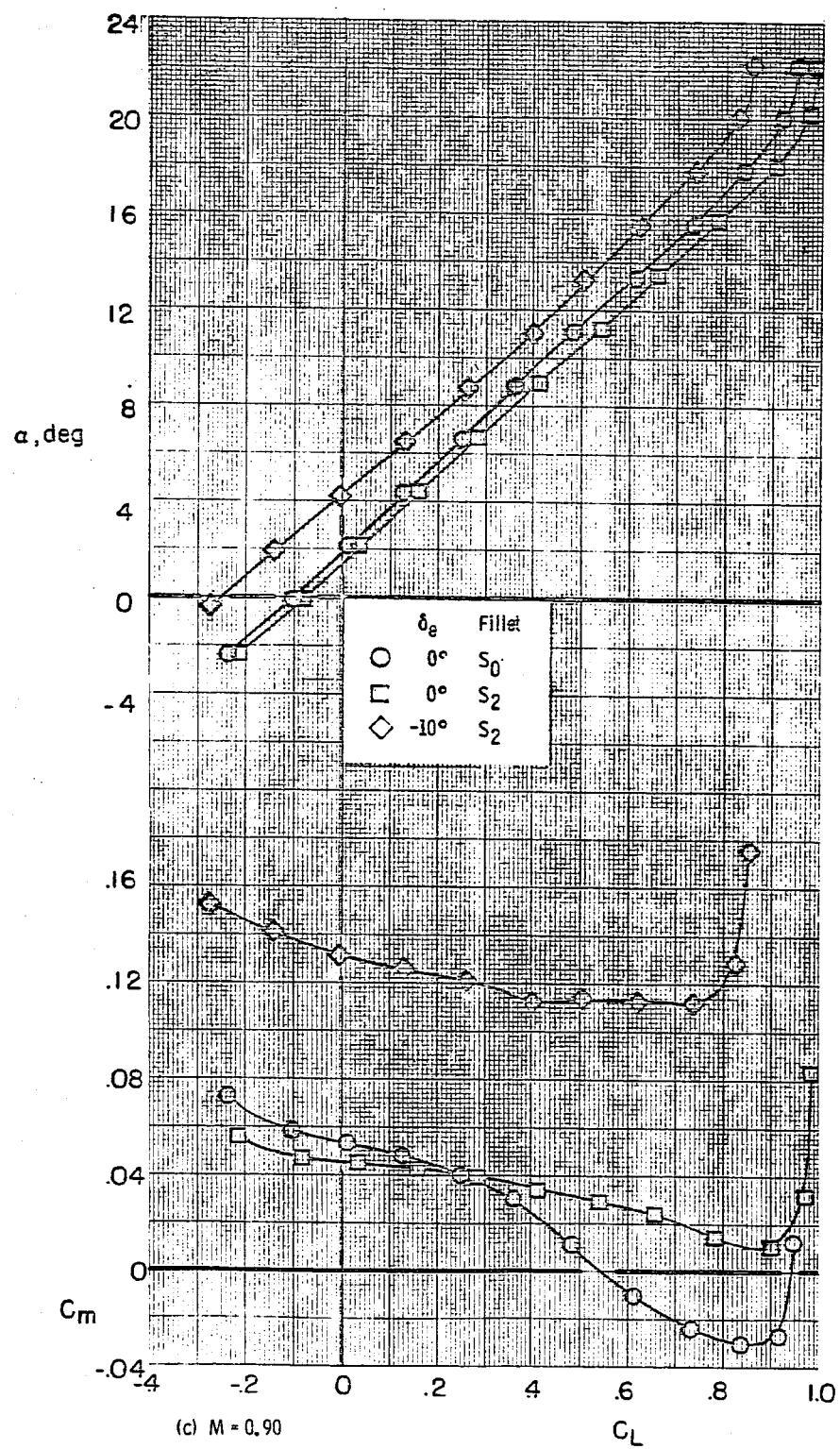
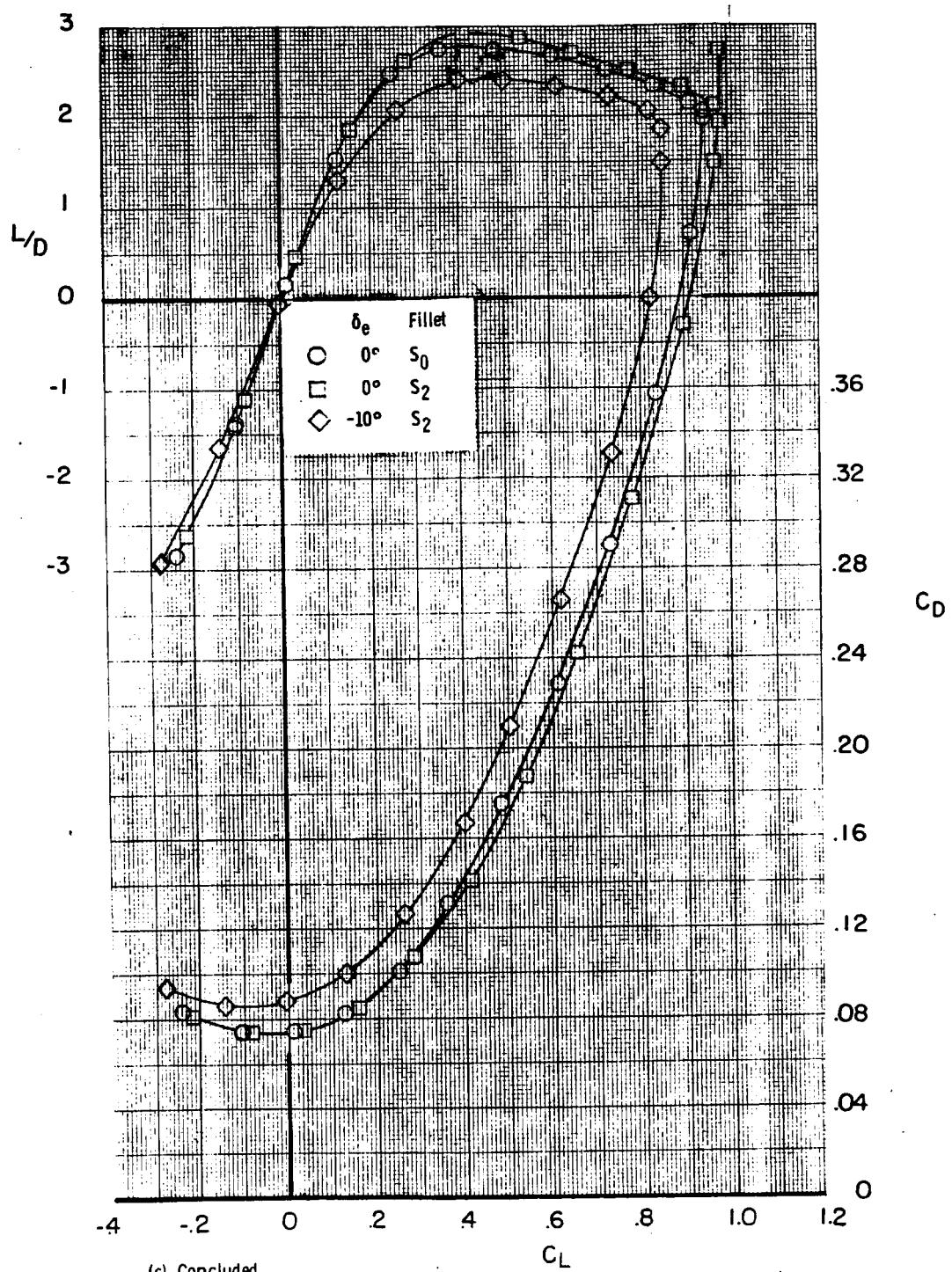
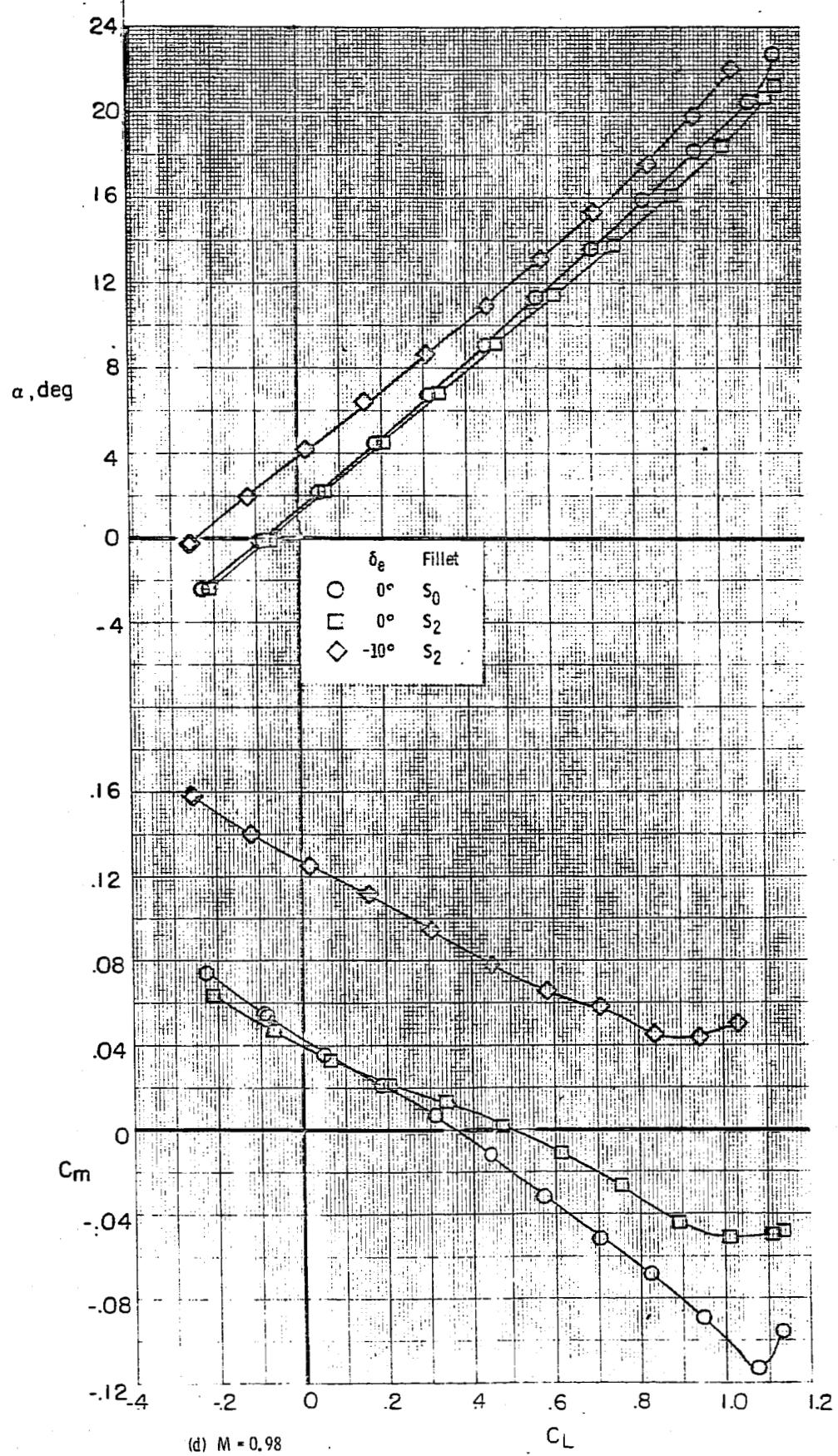


Figure 7. - Continued.



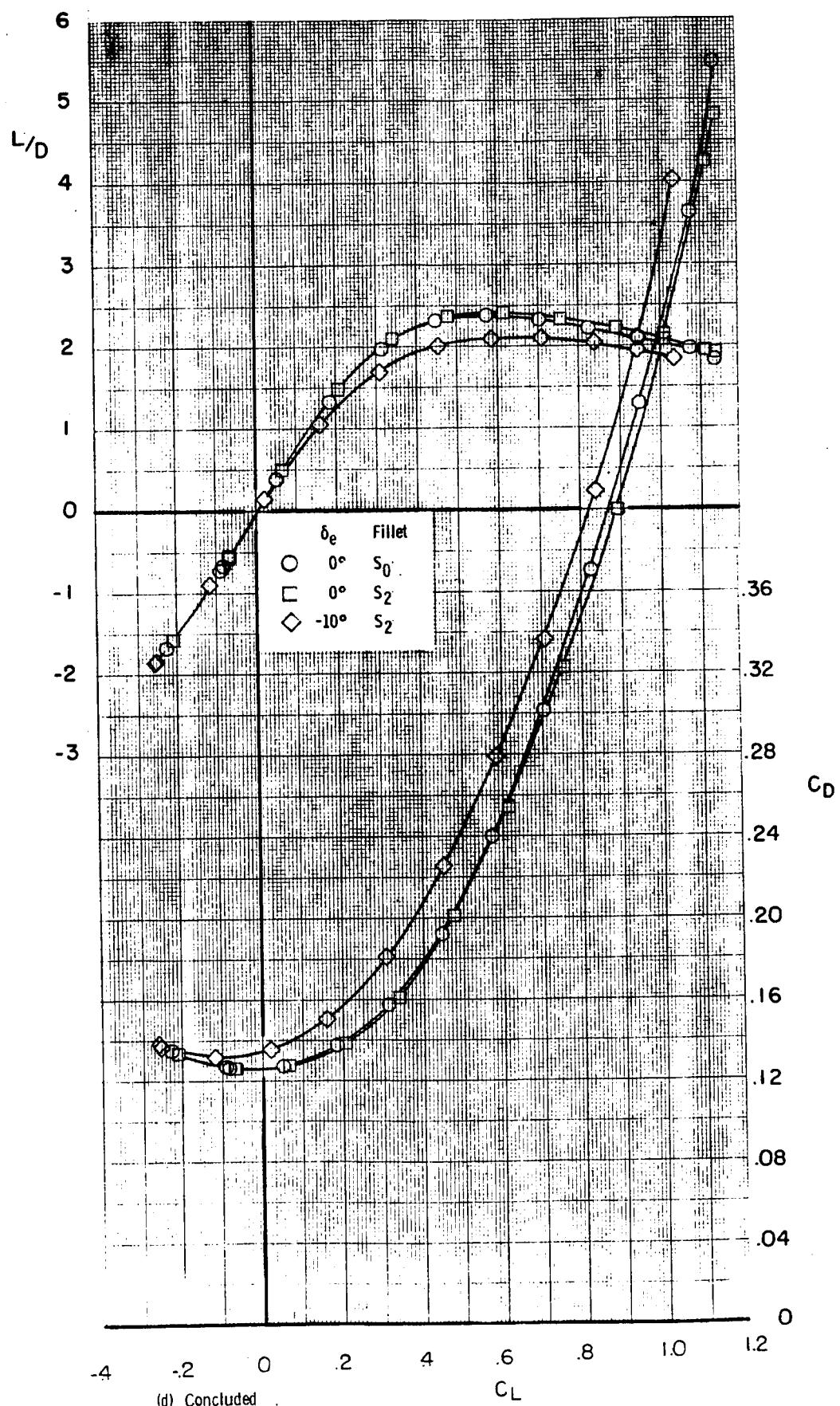
(c) Concluded

Figure 7. - Continued.



(d)  $M = 0.98$

Figure 7.- Continued.



(d) Concluded

Figure 7. - Continued.

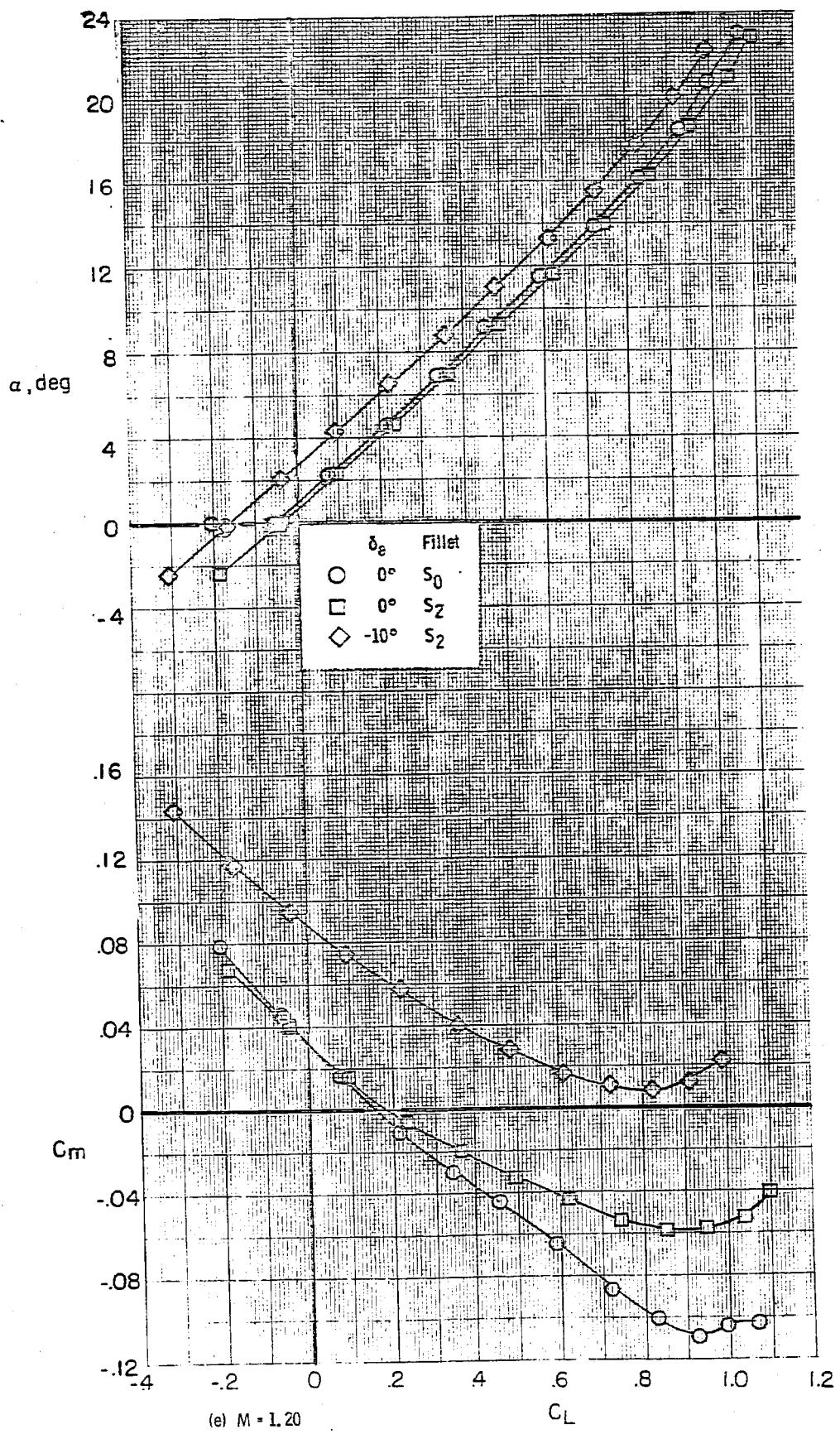
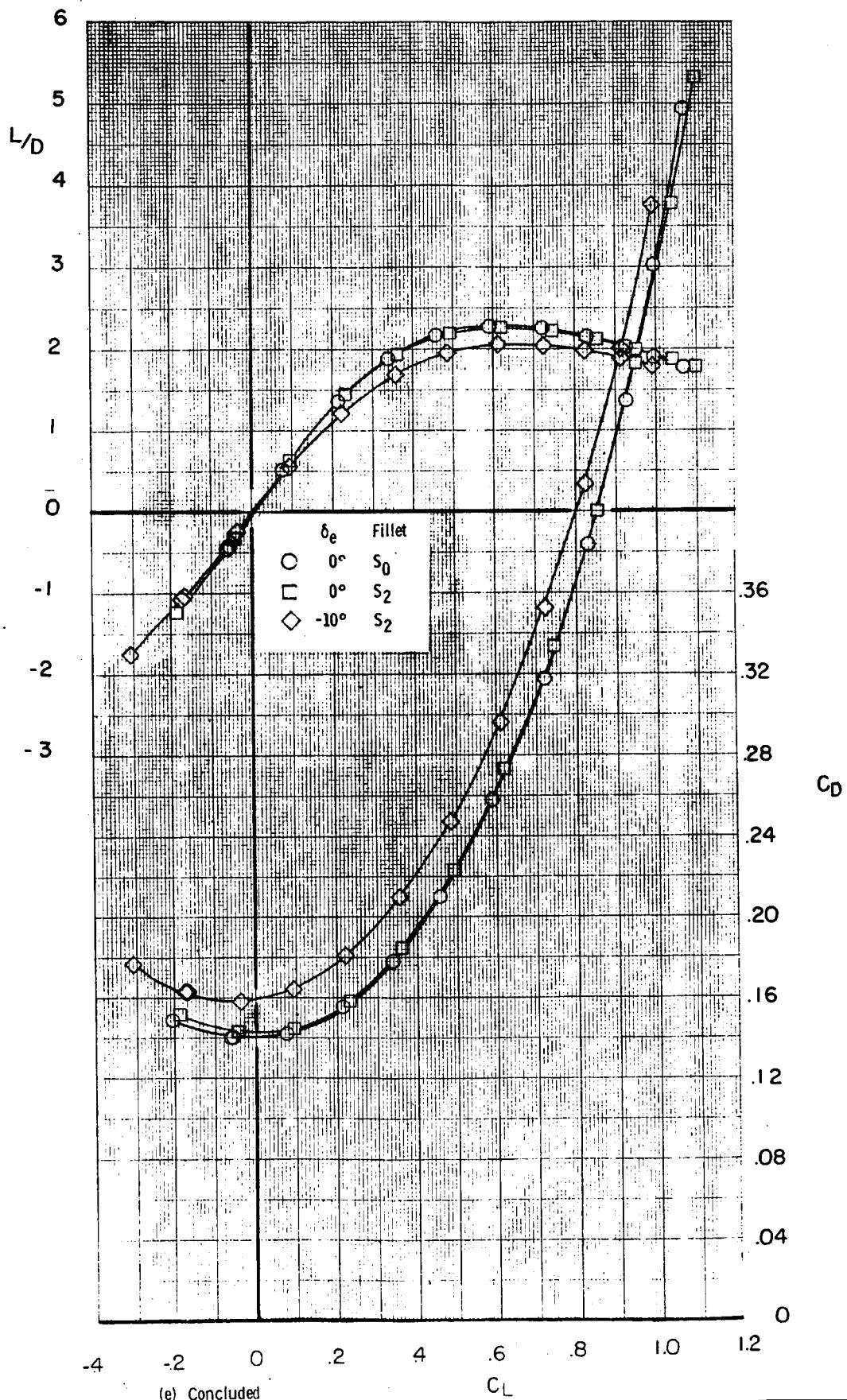


Figure 7(e) - Continued.



(e) Concluded

Figure 7. - Concluded.

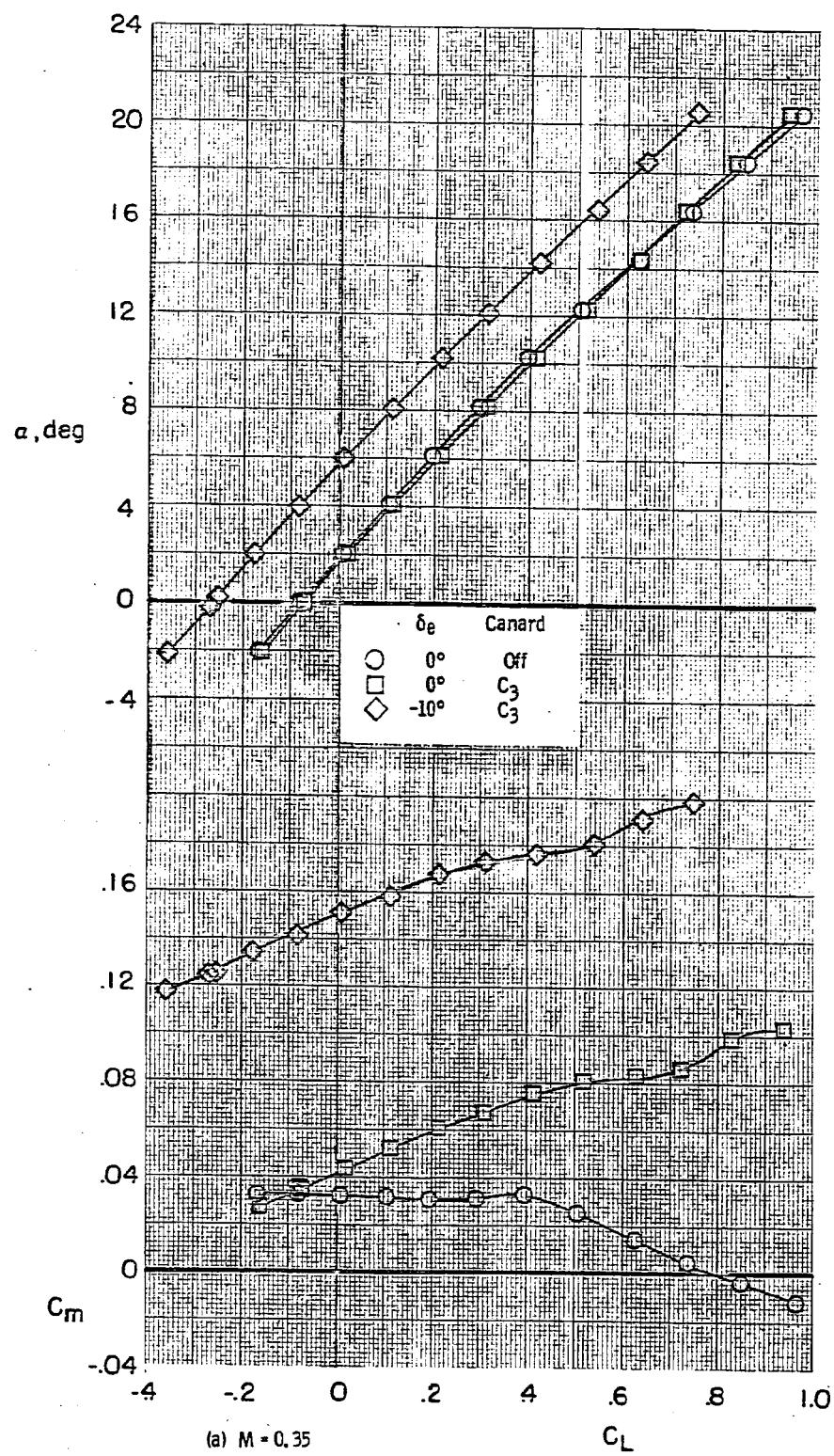
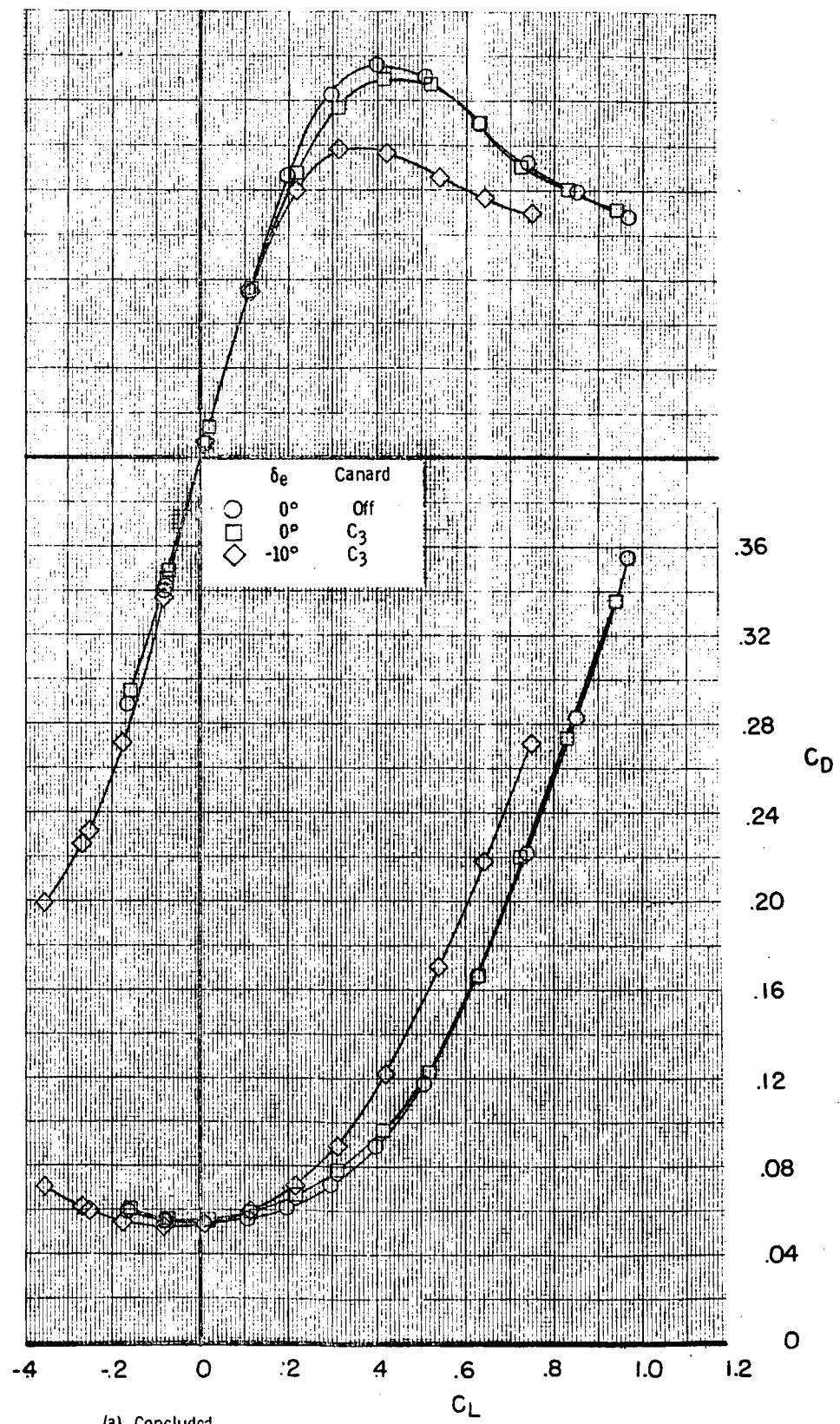


Figure 8. - Effect of canard  $C_3$  on the longitudinal aerodynamic characteristics

for configuration B1WVS<sub>0</sub>EF.  $\delta_{BF} = -11.70^\circ$ ;  $\delta_{SB} = 0^\circ$ .



(a) Concluded

Figure 8. - Continued.

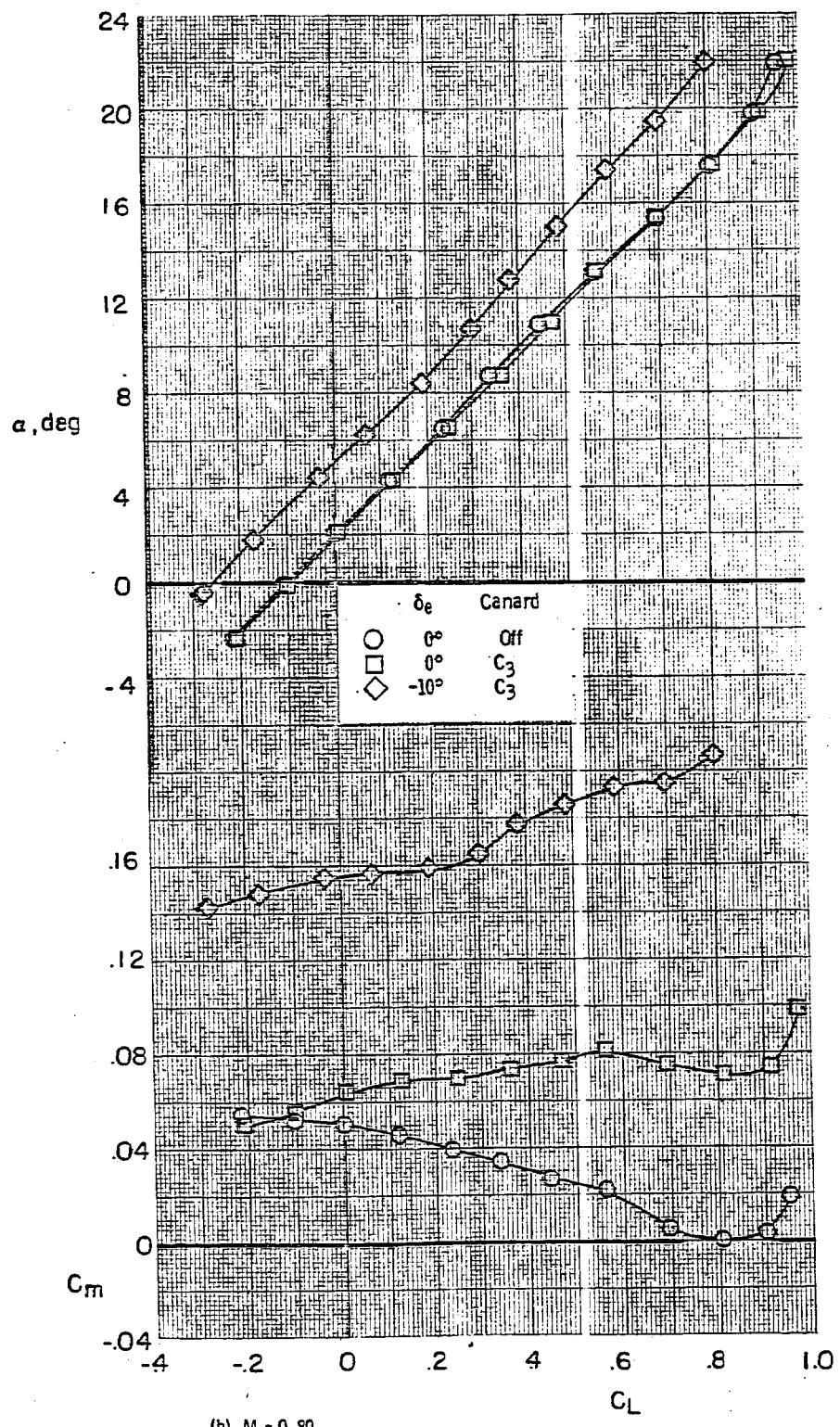
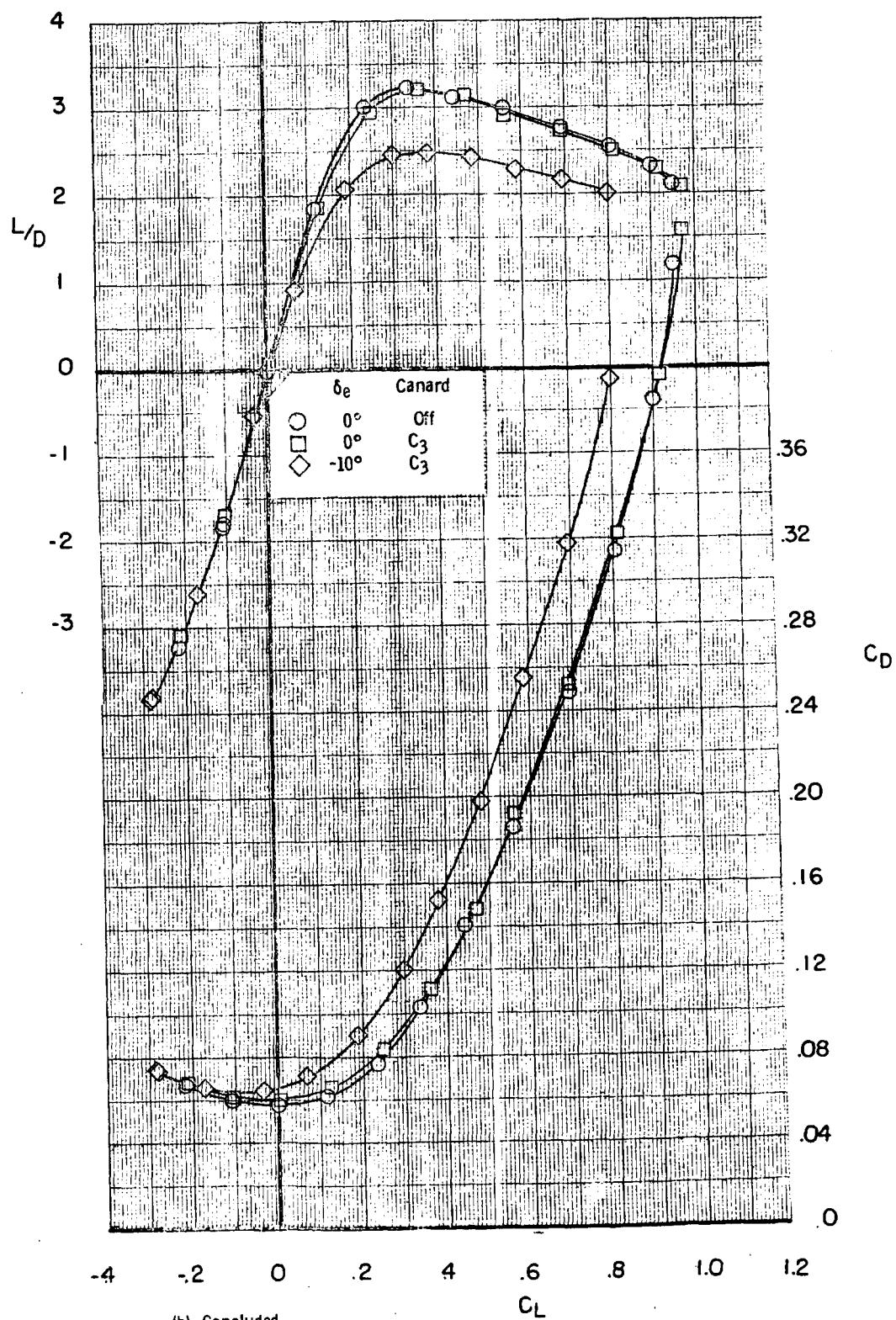
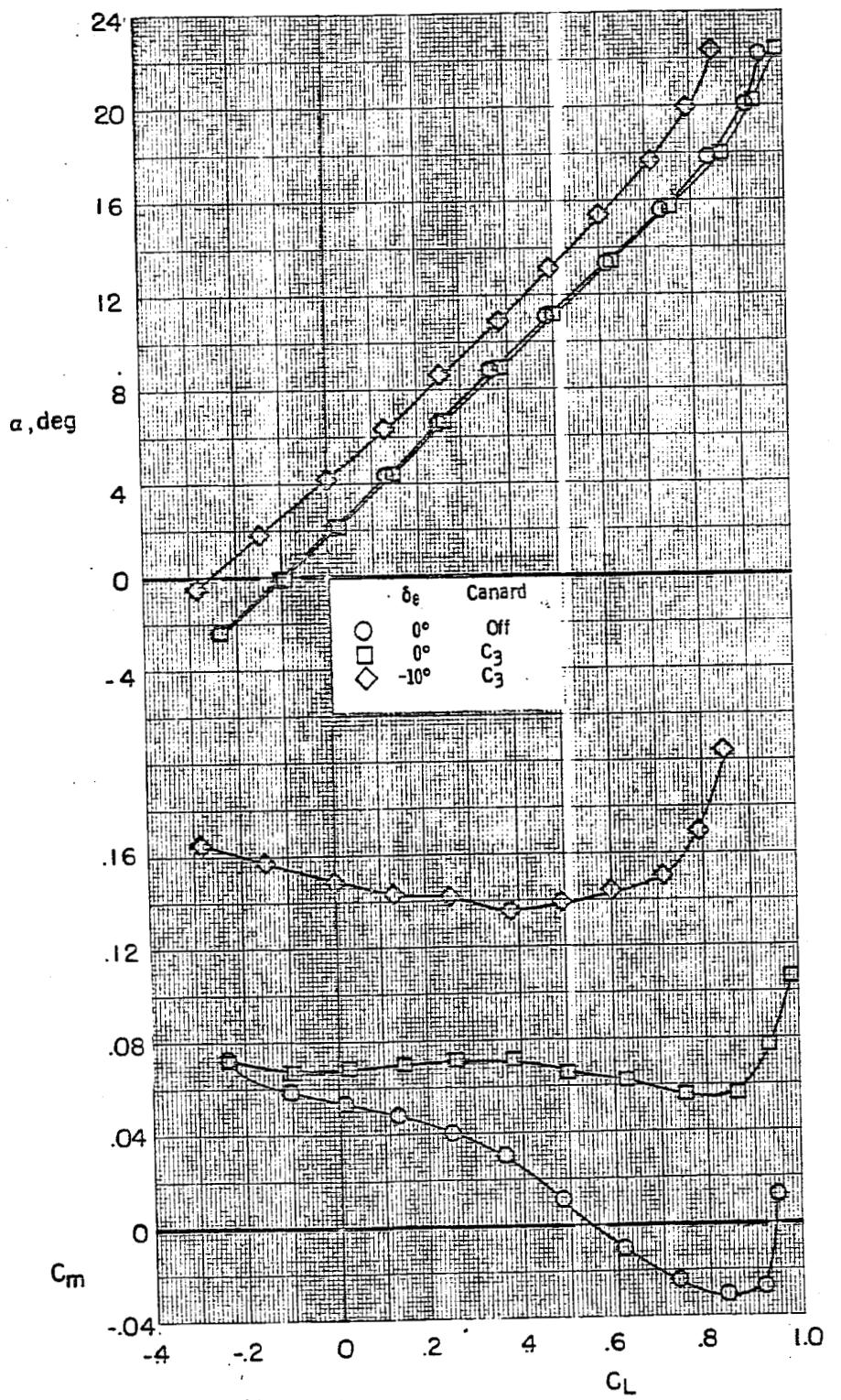


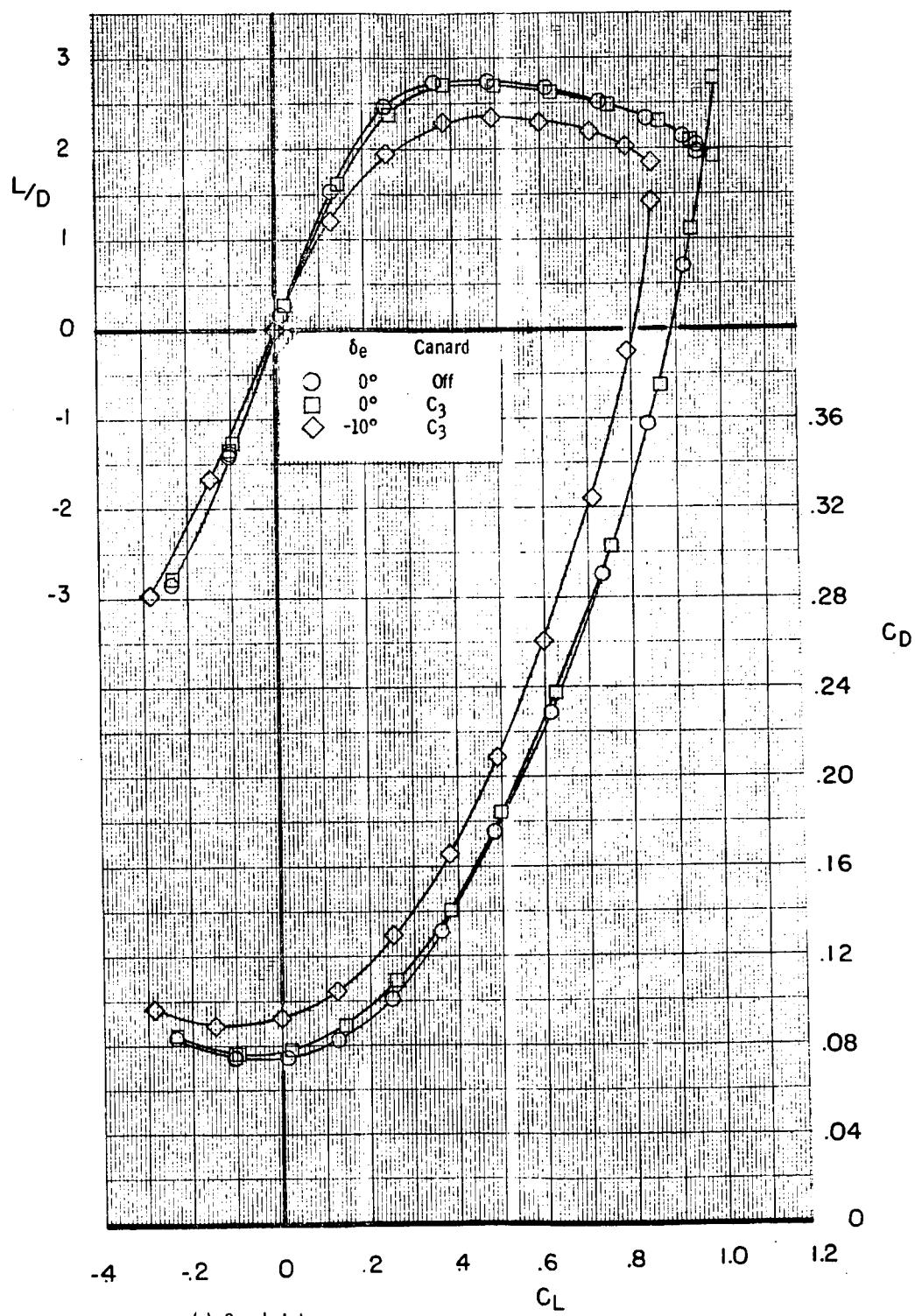
Figure 8.- Continued.



(b) Concluded

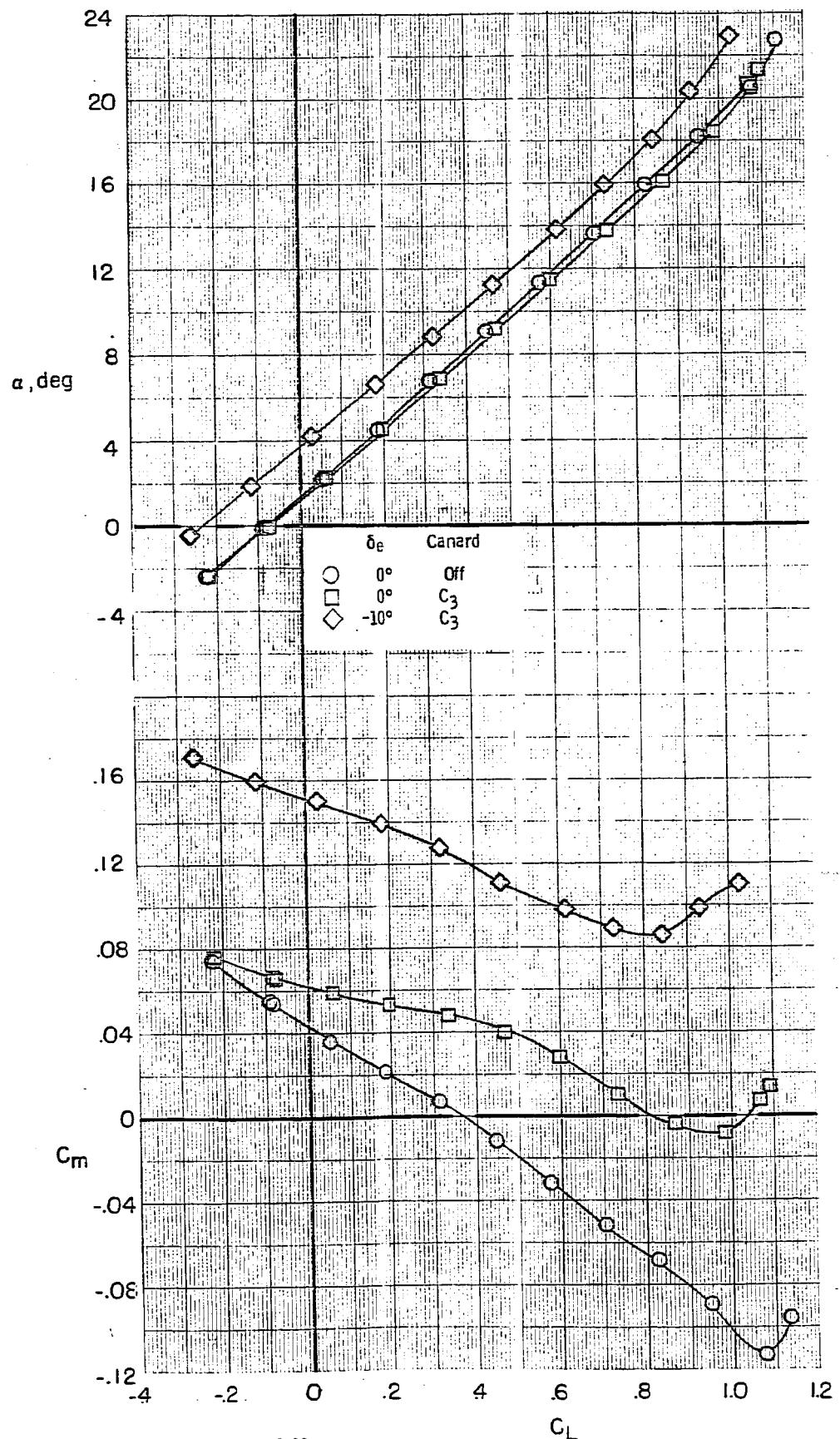
Figure 8. - Continued.





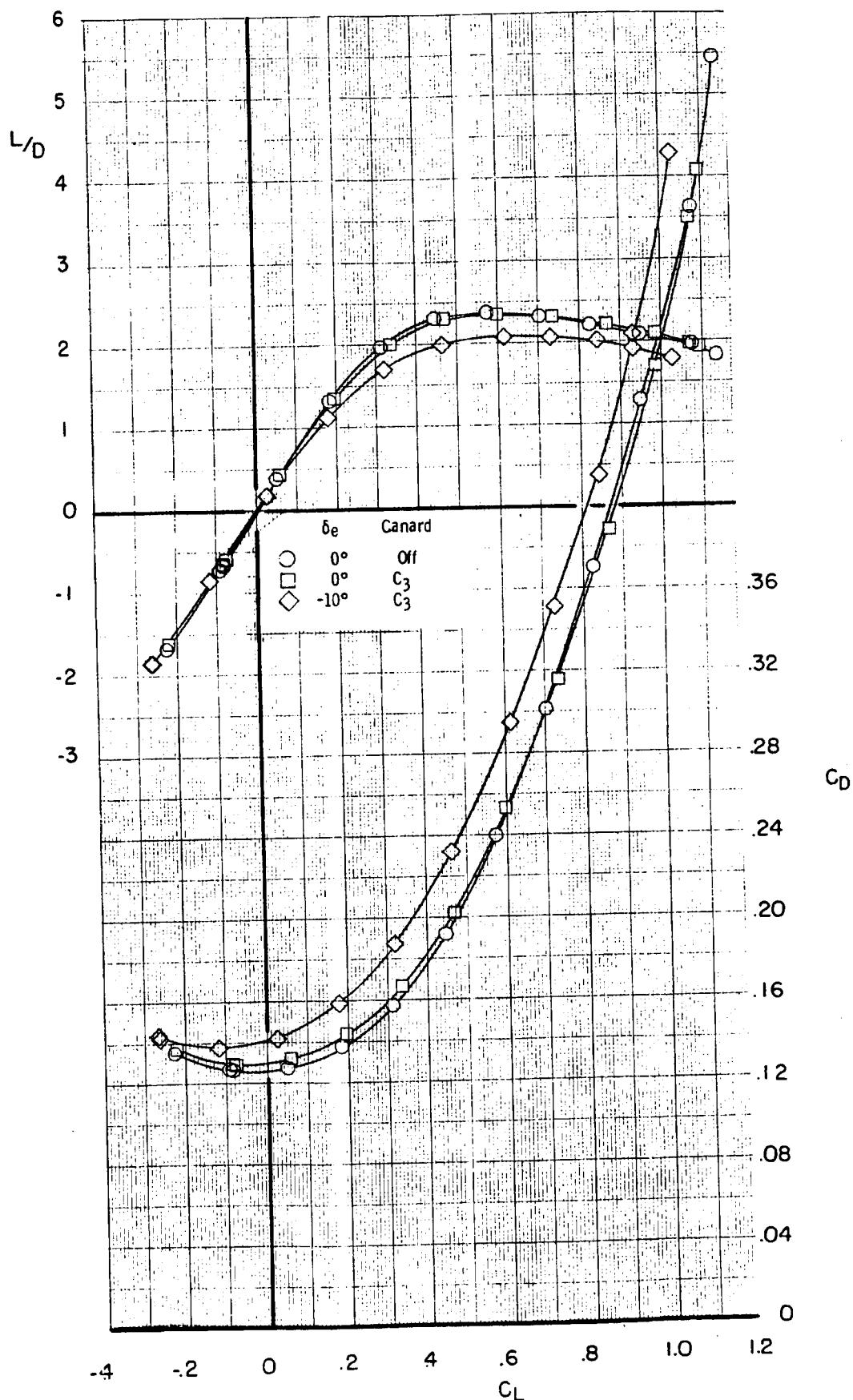
(c) Concluded

Figure 8. - Continued.



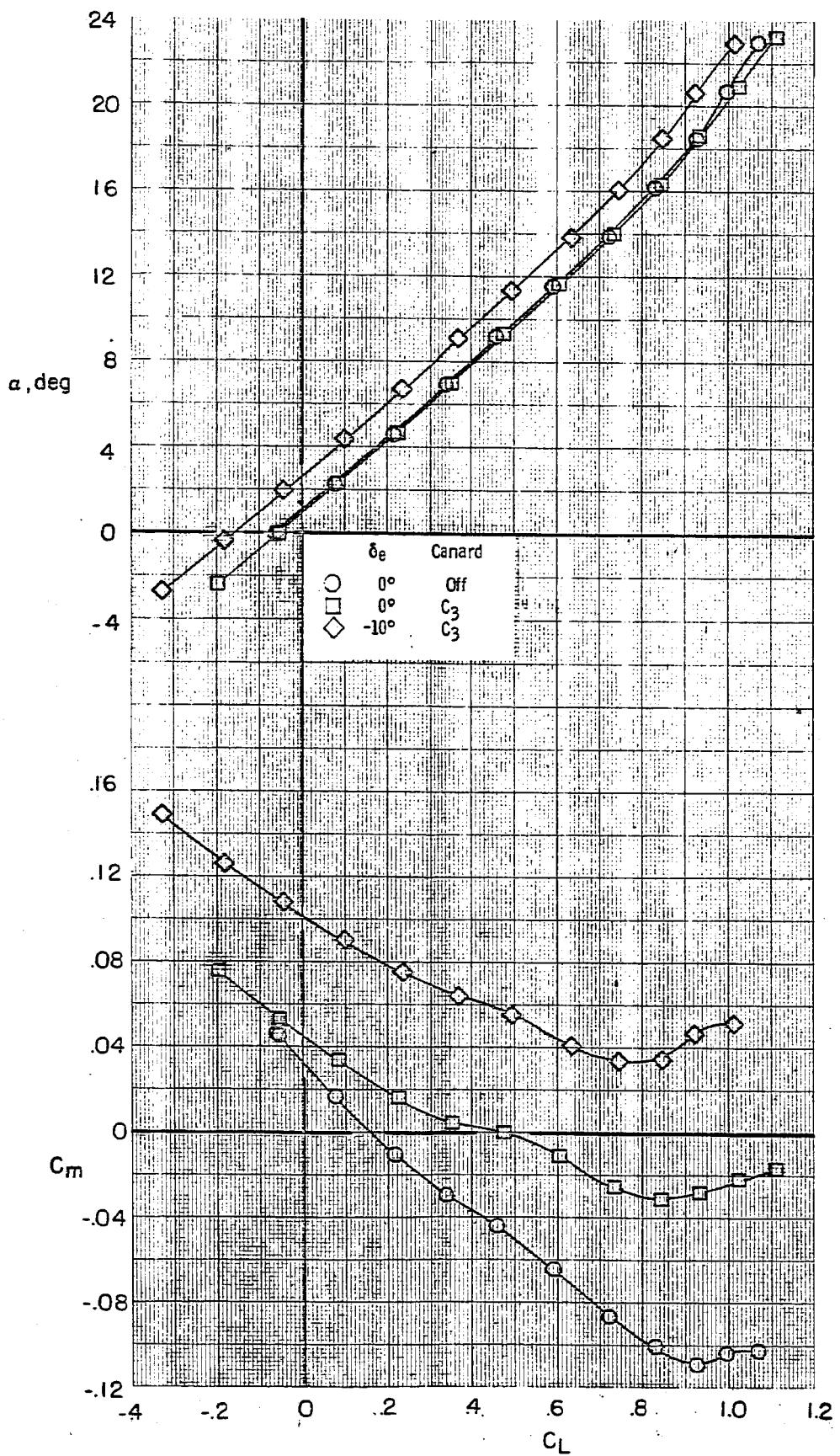
(d)  $M = 0.98$

Figure 8. - Continued.



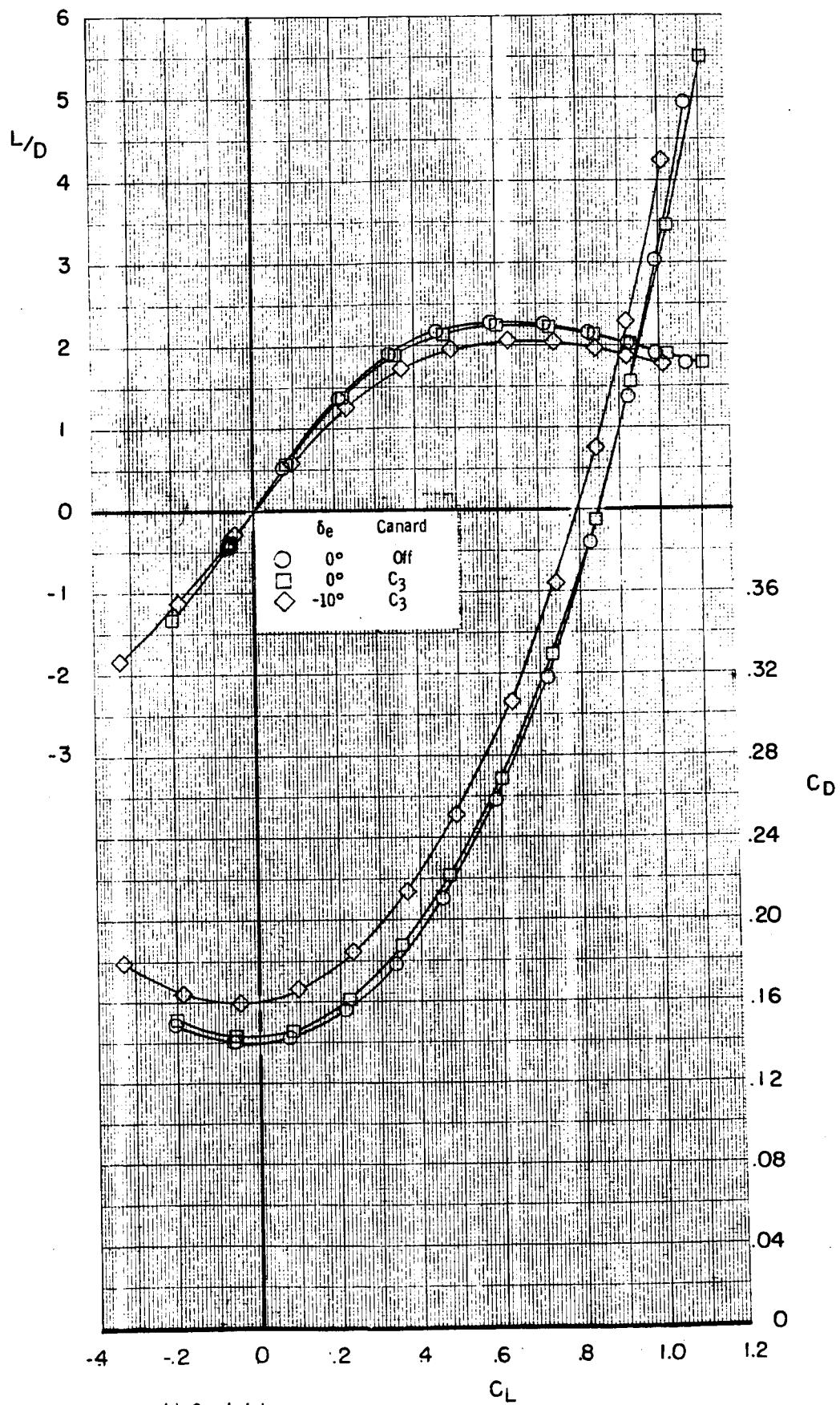
(d) Concluded

Figure 8.- Continued.



(e)  $M = 1.20$

Figure 8. - Continued.



(e) Concluded

Figure 8. - Concluded.

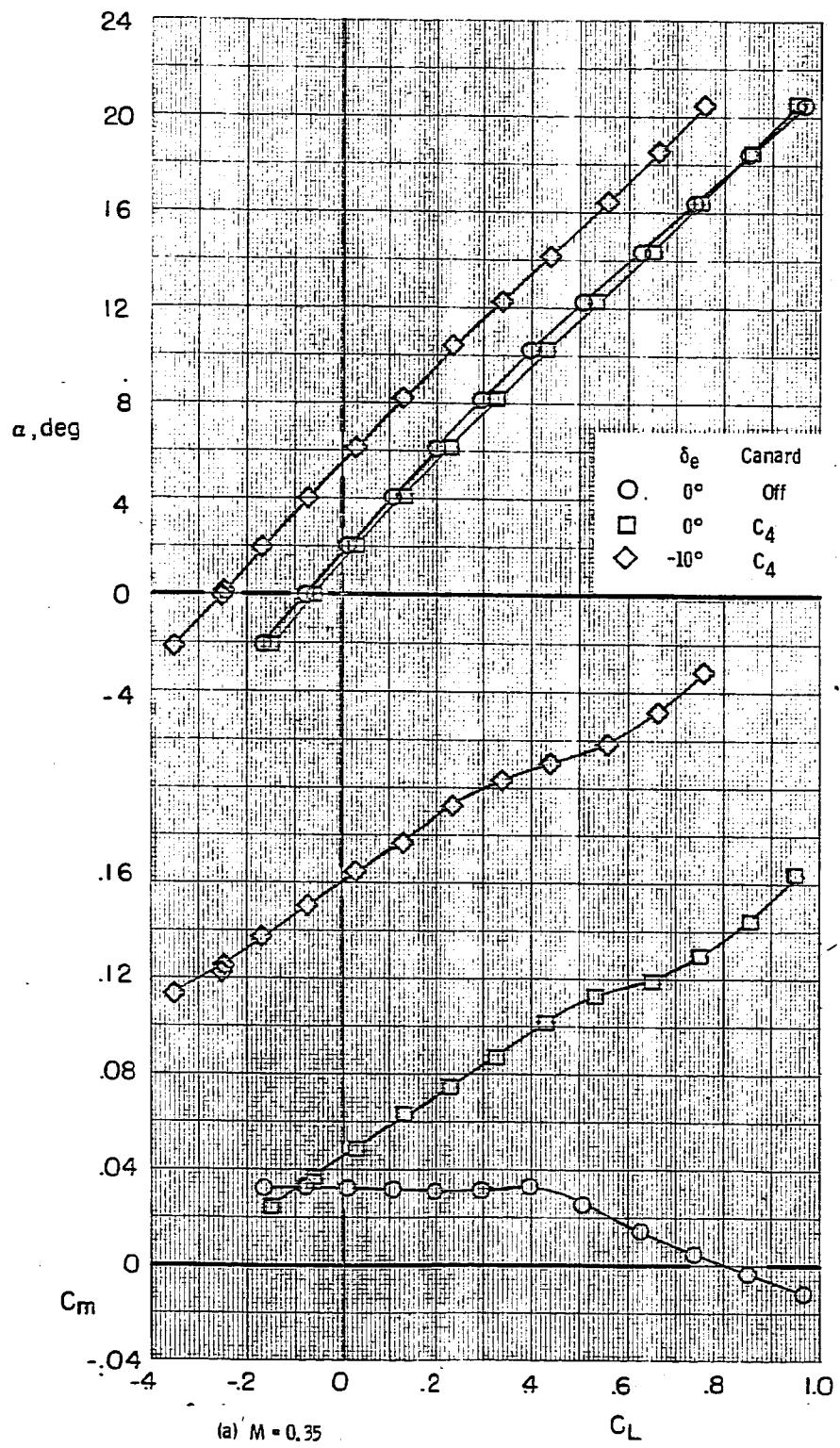
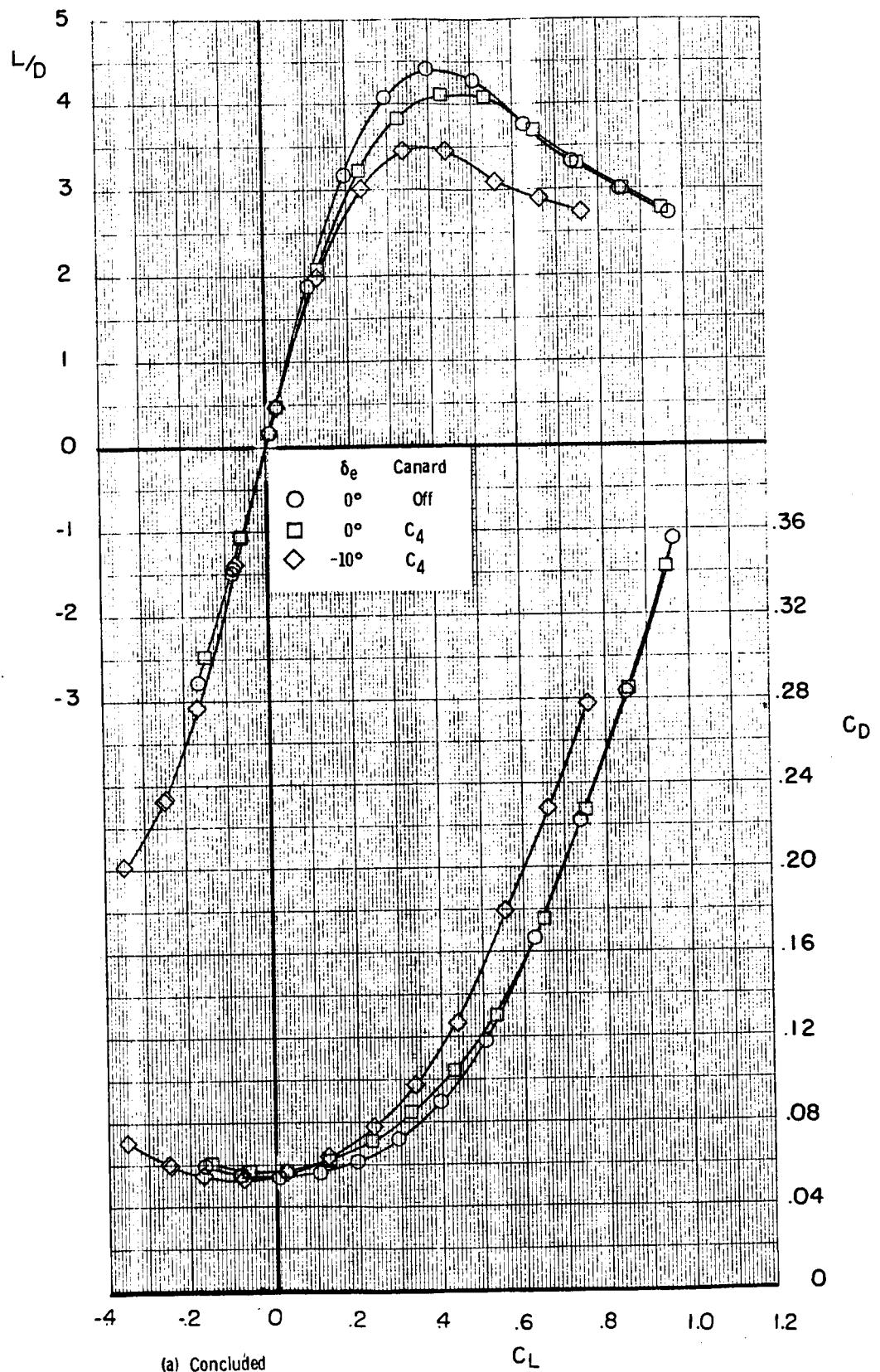
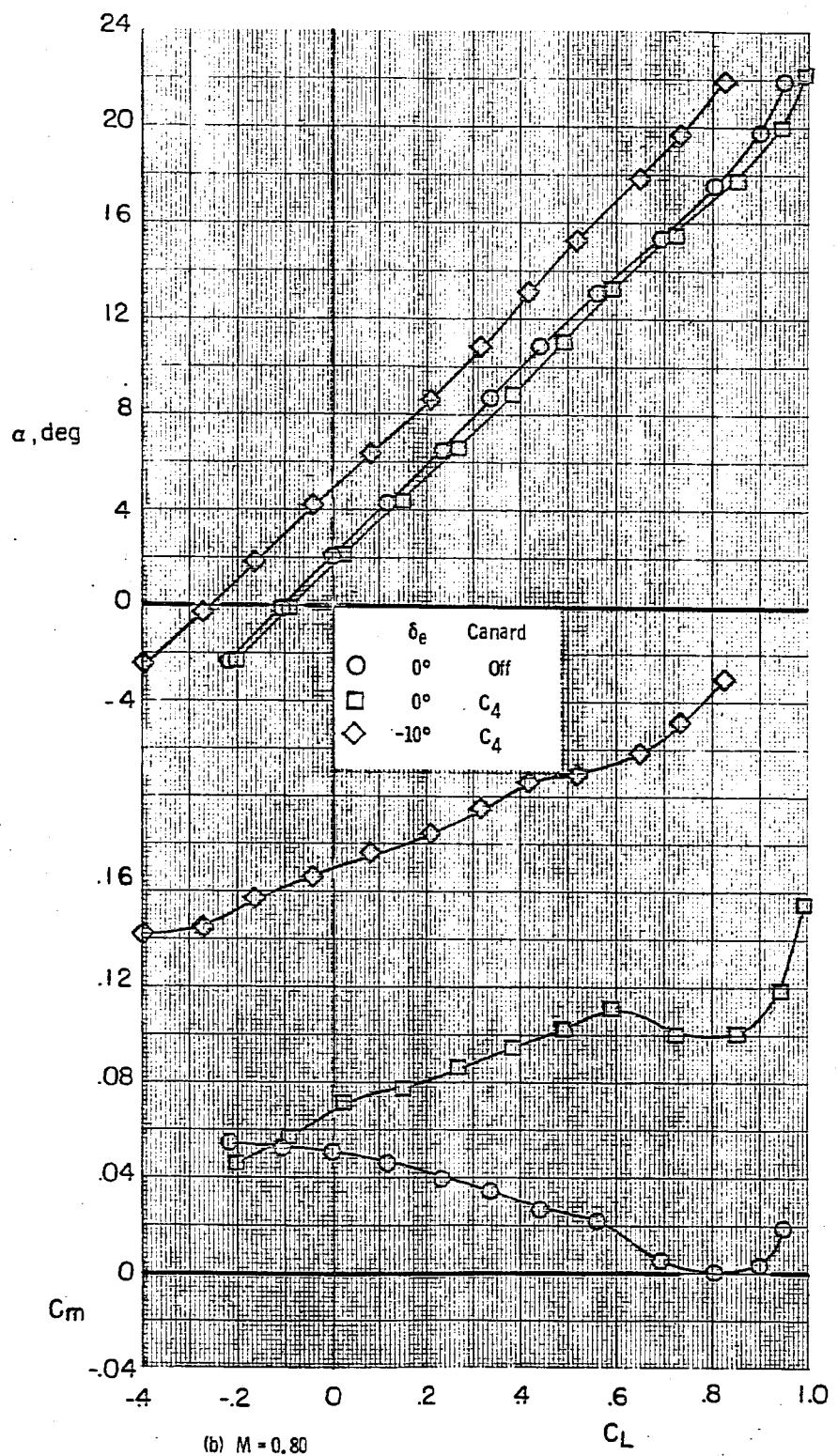


Figure 9. - Effect of canard  $C_4$  on the longitudinal aerodynamic characteristics

for configuration B1WVS<sub>0</sub>EF.  $\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .

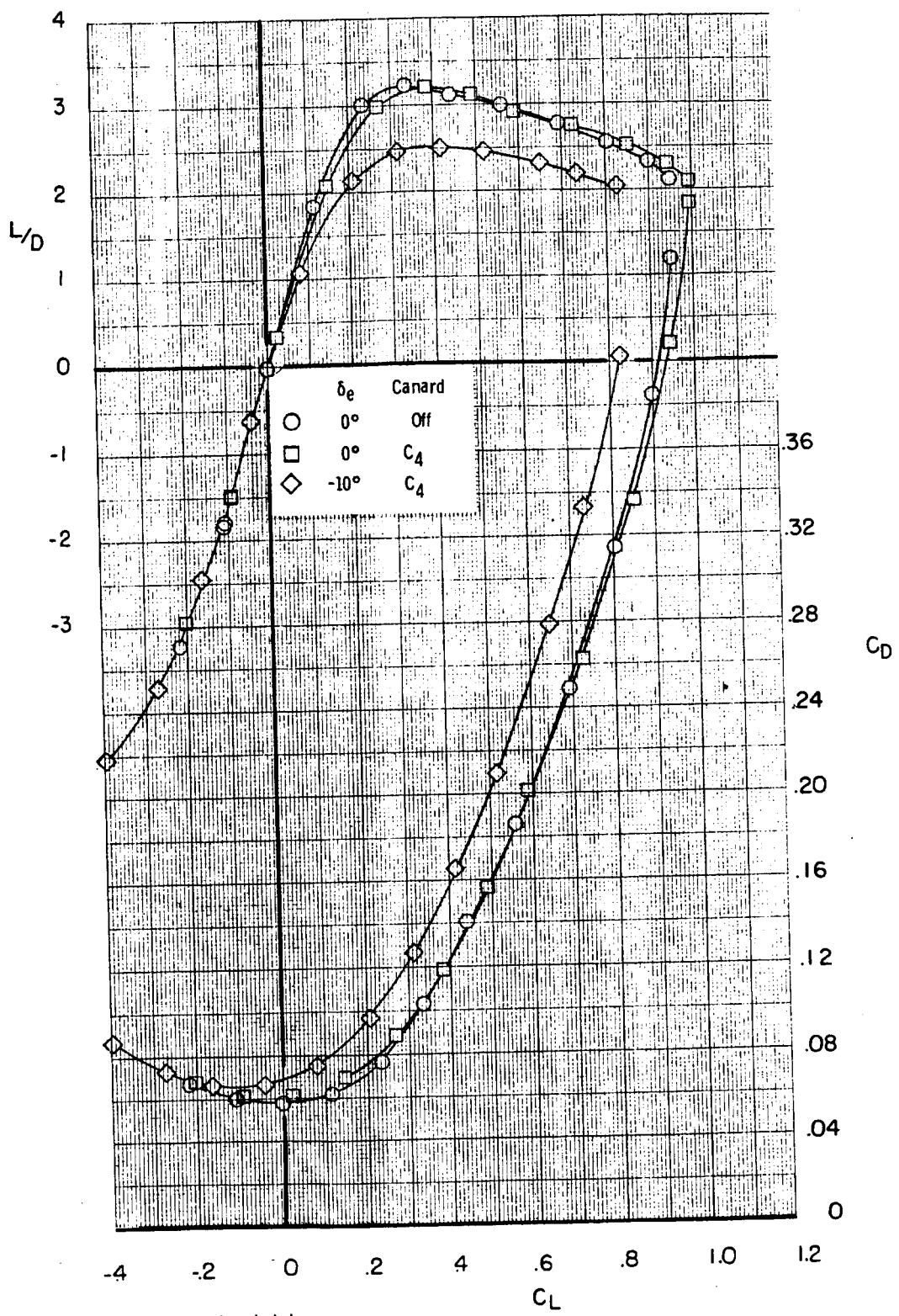


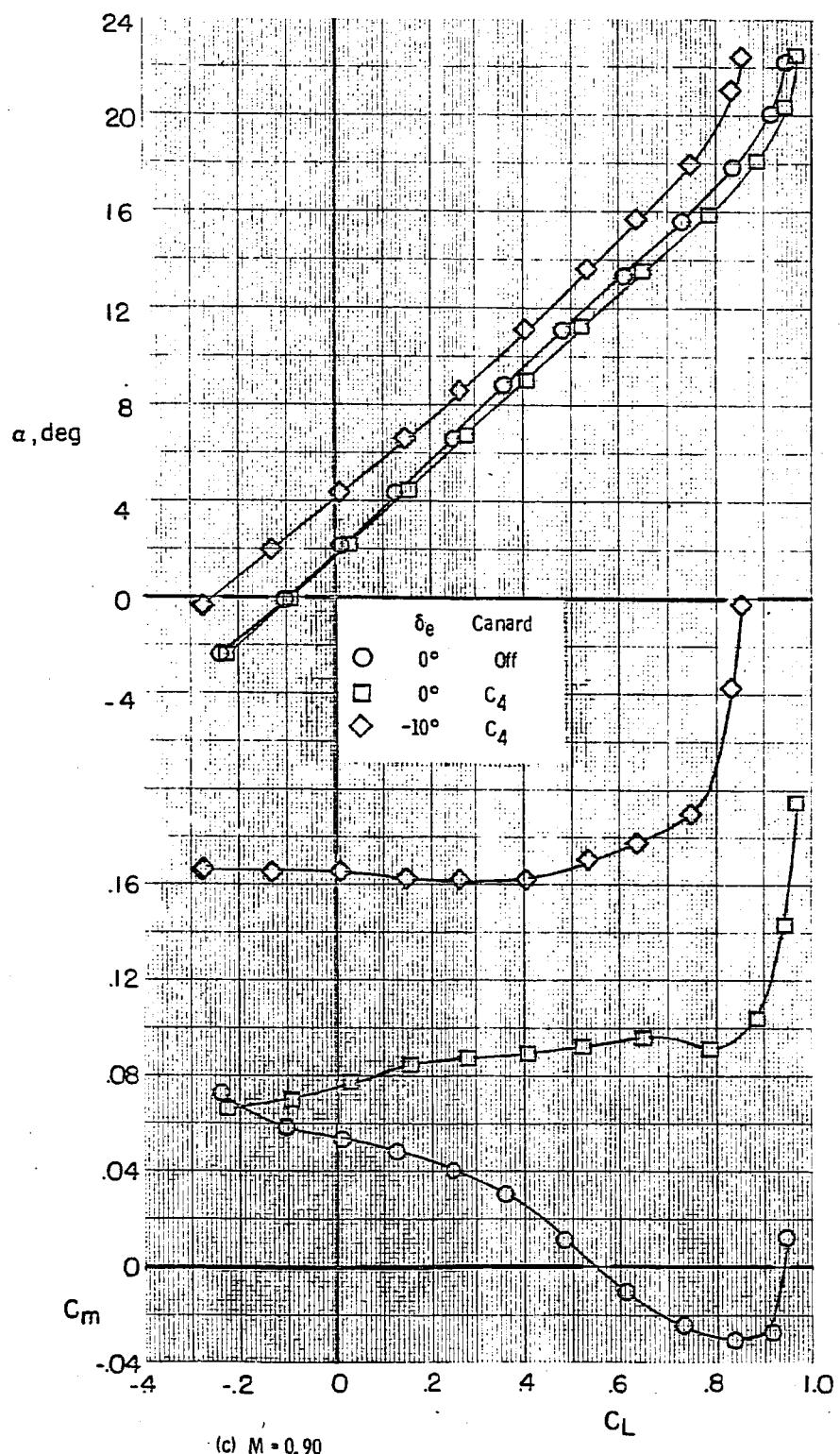
(a) Concluded  
Figure 9.- Continued.

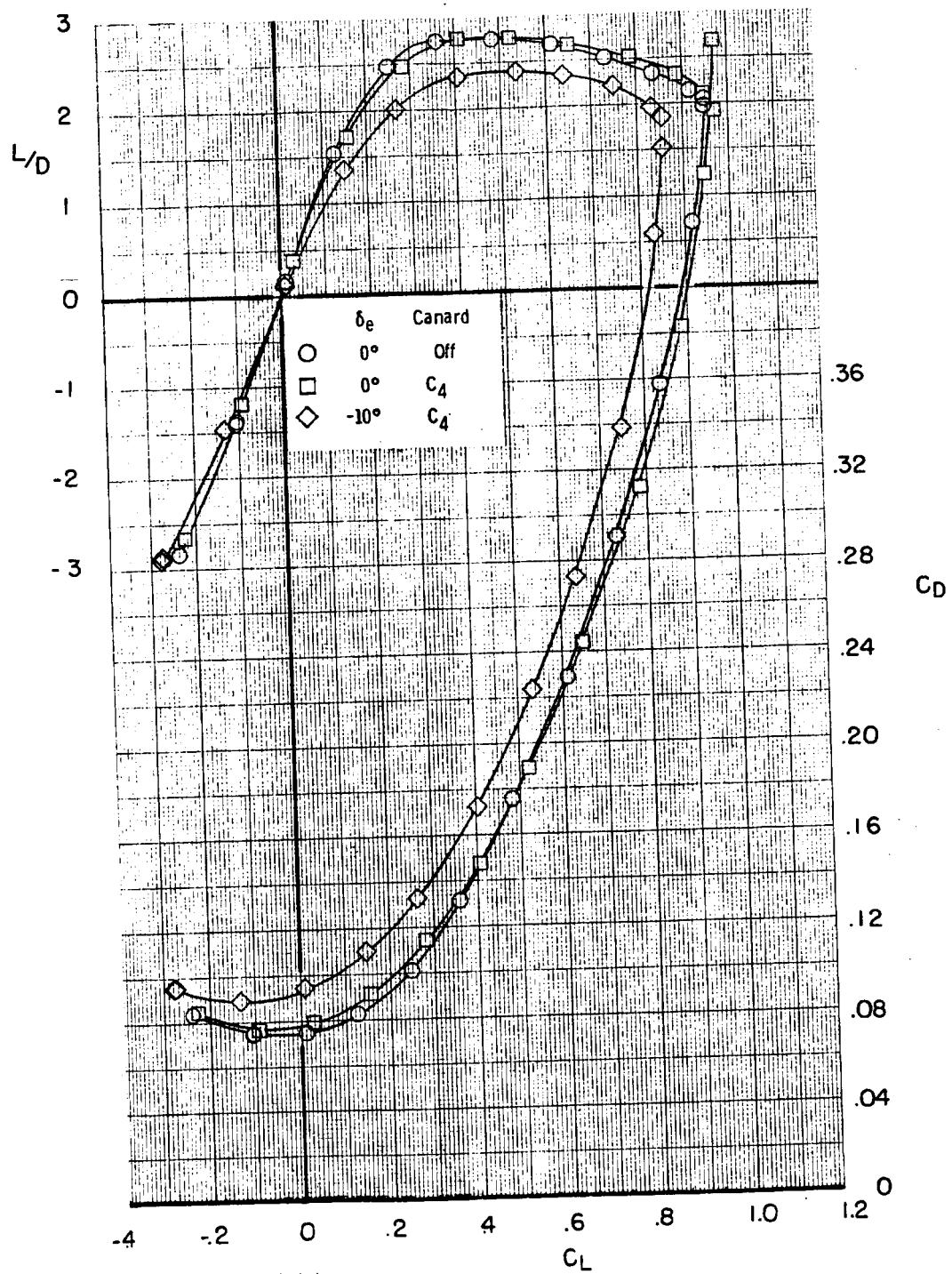


(b)  $M = 0.80$

Figure 9.- Continued.







(c) Concluded

Figure 9.- Continued.

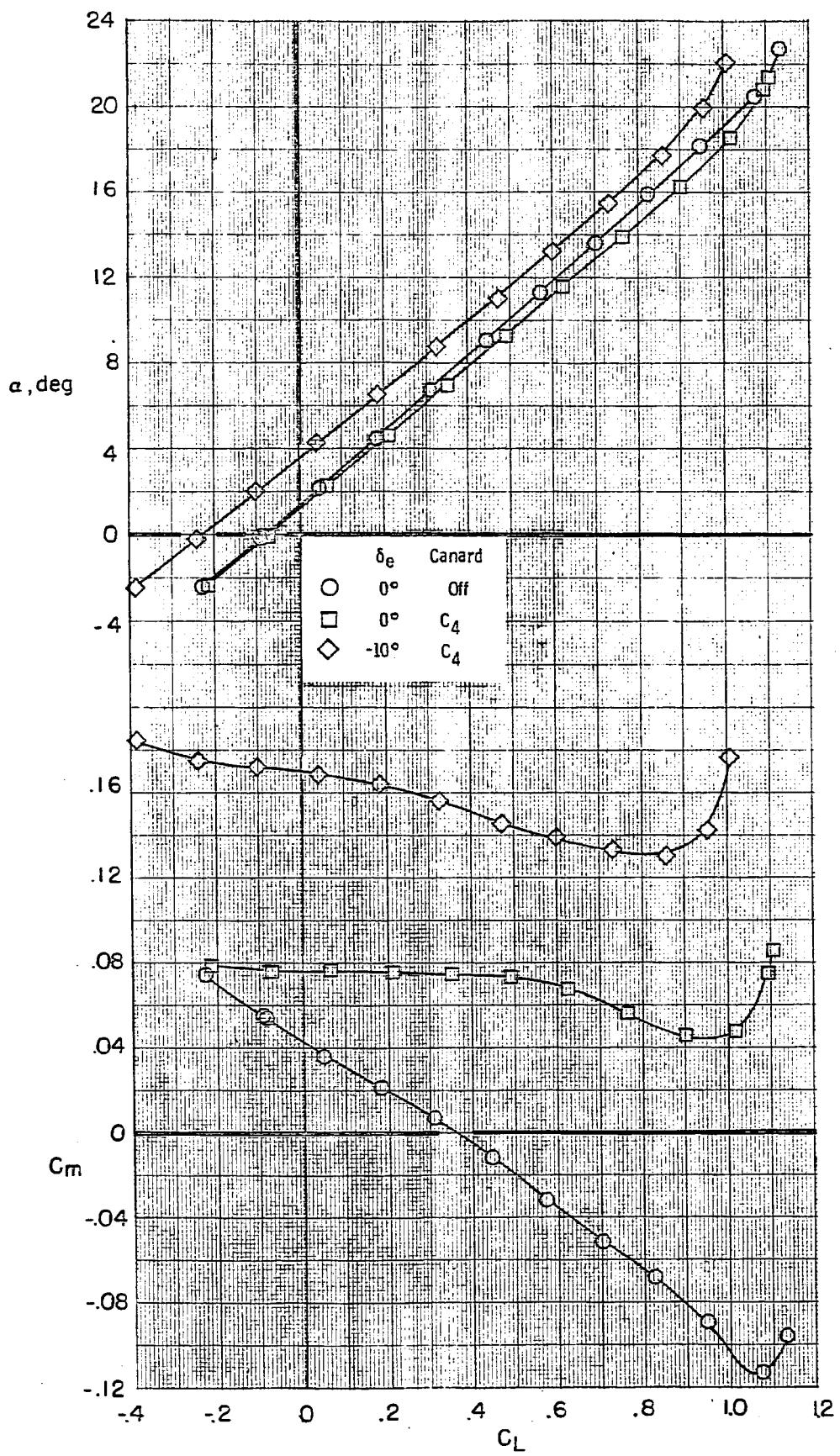
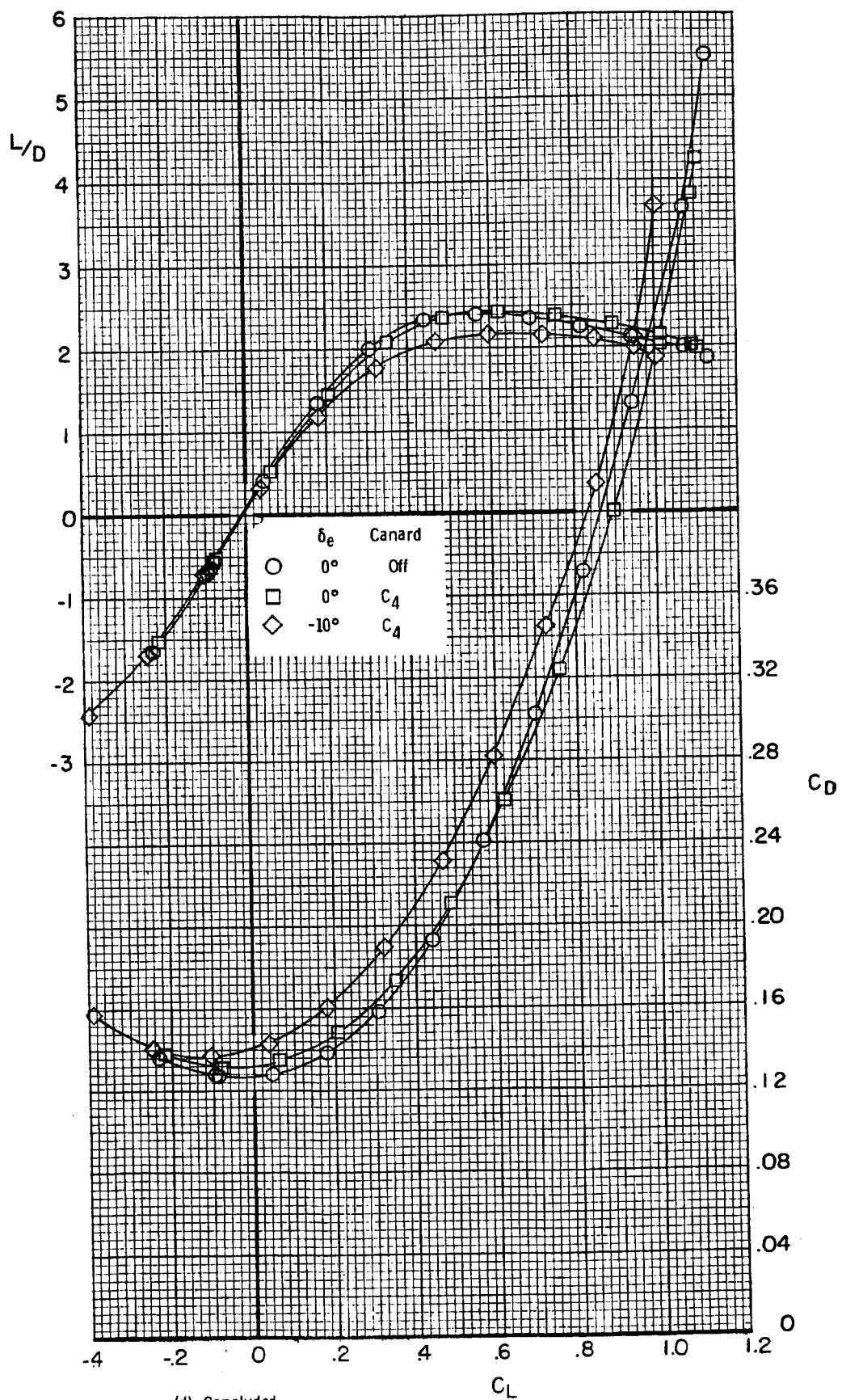
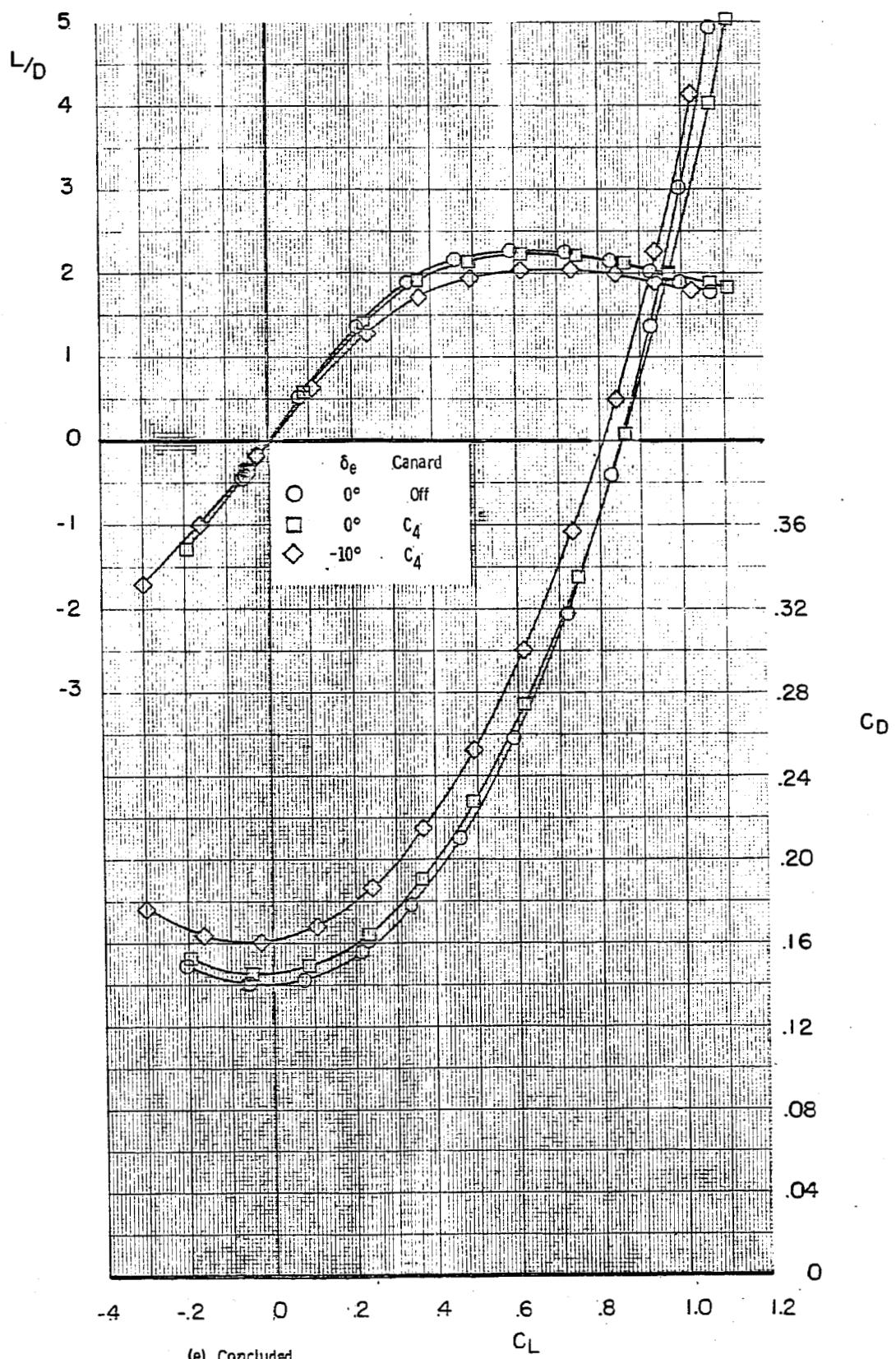


Figure 9. - Continued.

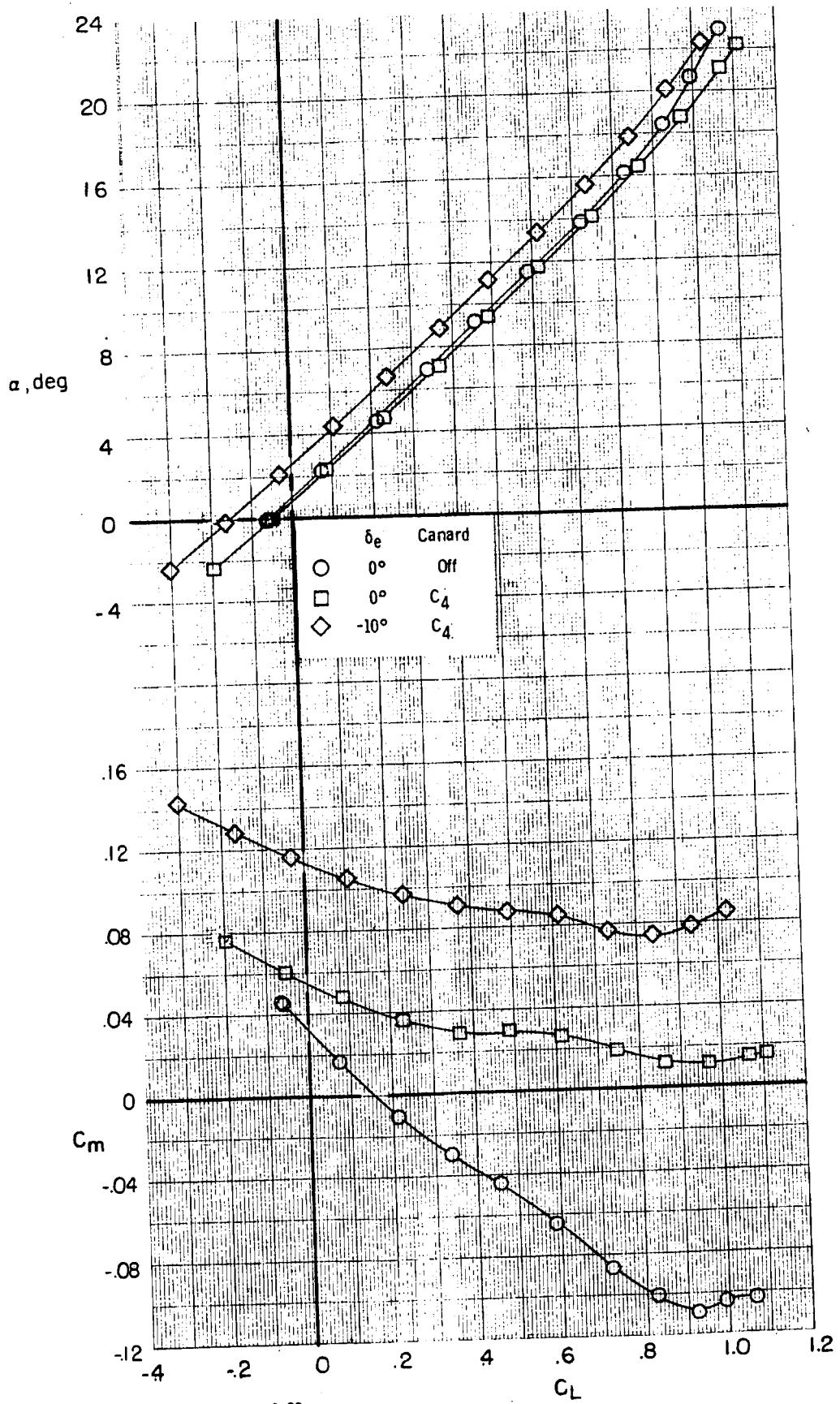


(d) Concluded  
Figure 9. - Continued.



(e) Concluded

Figure 9. - Concluded,



(e)  $M = 1.20$

Figure 9. - Continued.

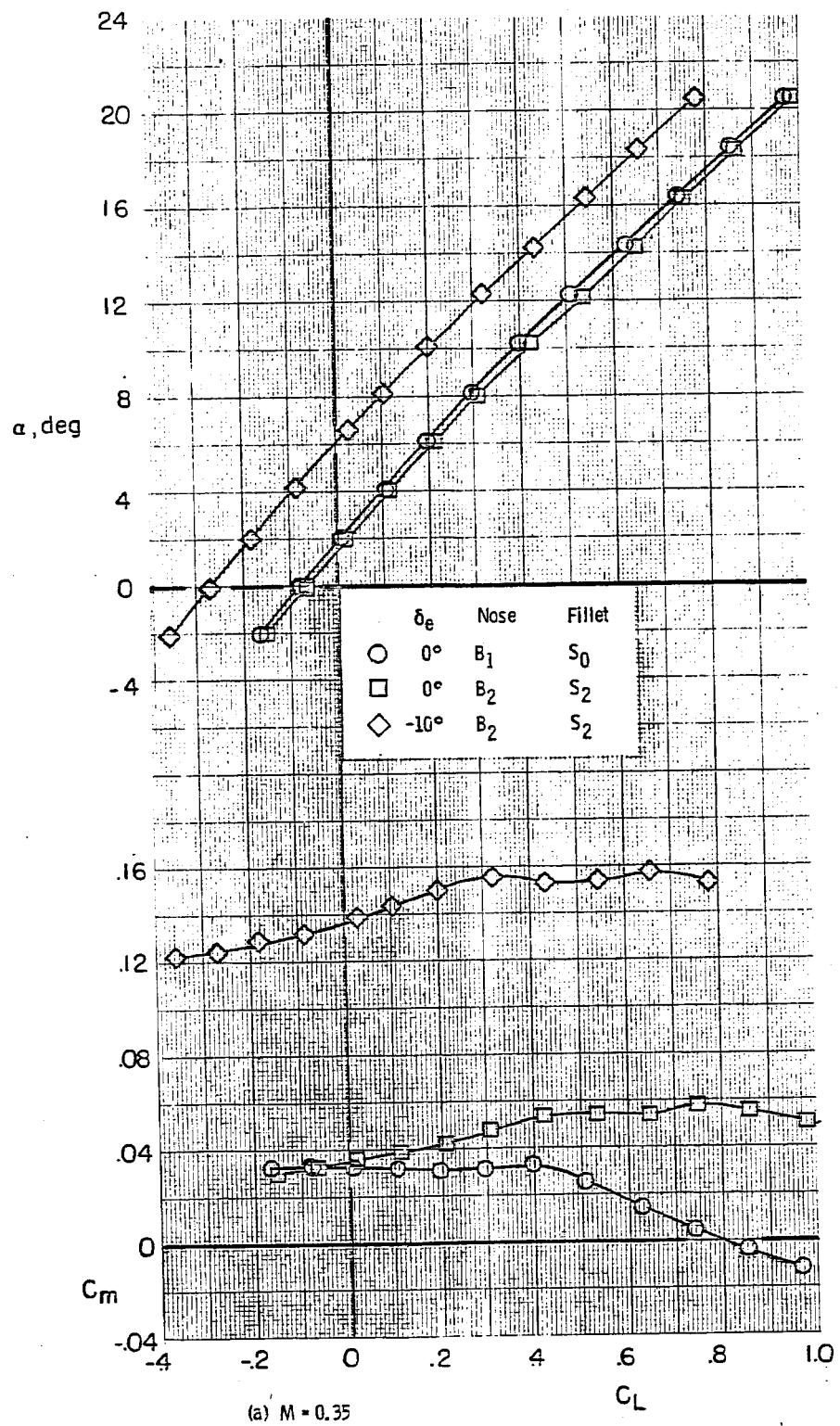
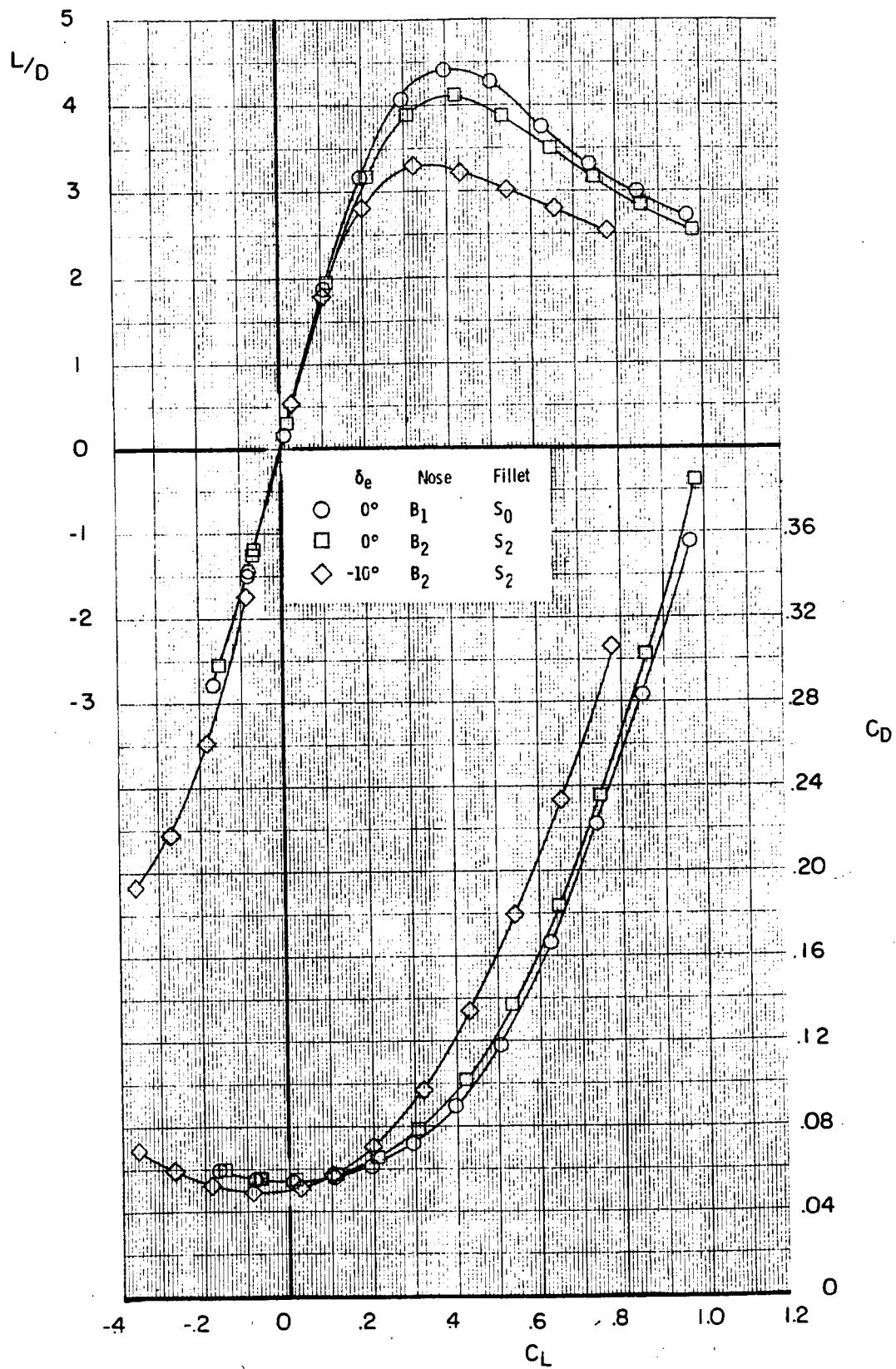


Figure 10. - Effect of fuselage forebody  $B_2$  in combination with planform fillet  $S_2$

on the longitudinal aerodynamic characteristics for  $B_1WVS_0EF$ .  $\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .



(a) Concluded  
Figure 10. - Continued.

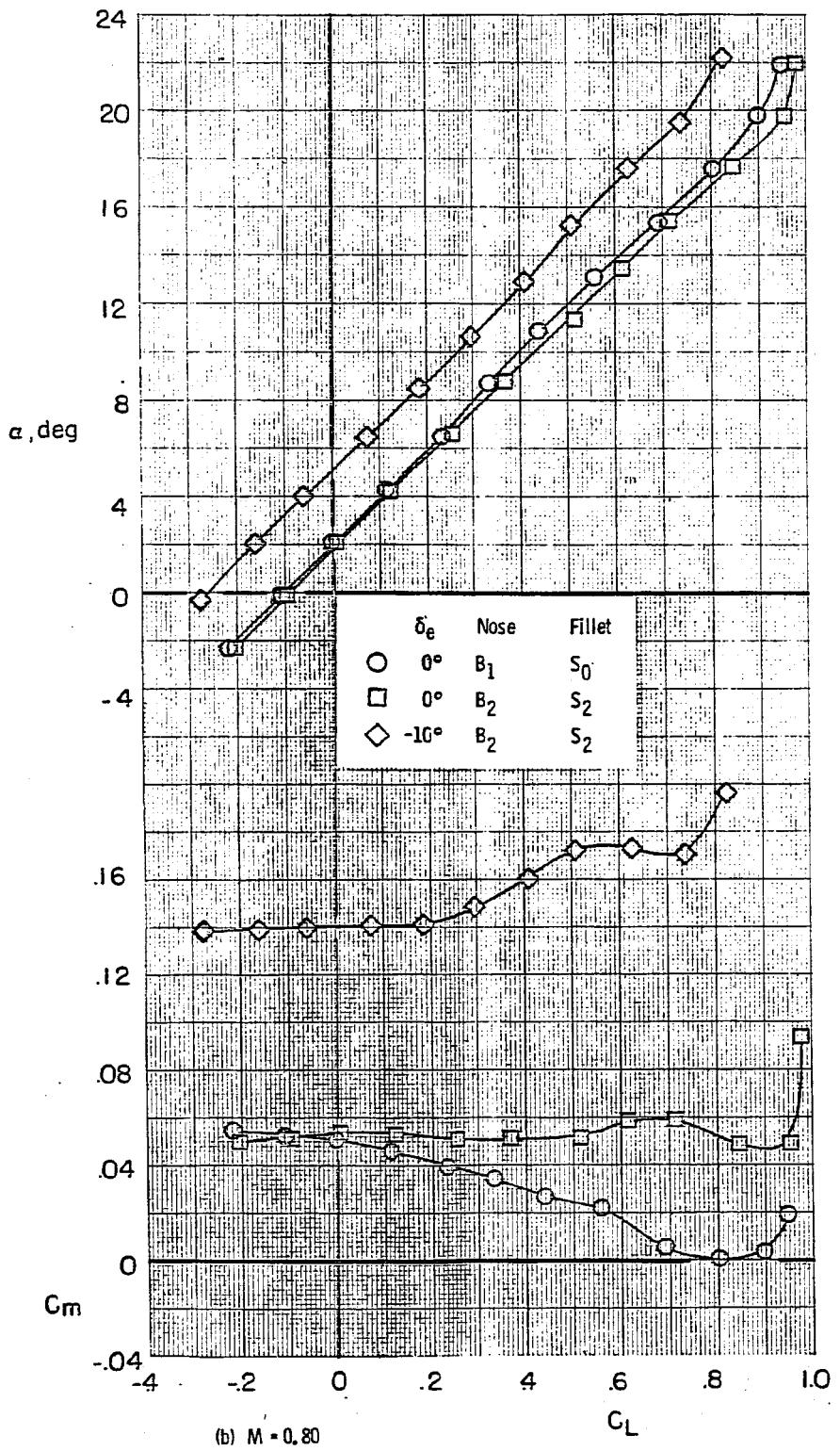
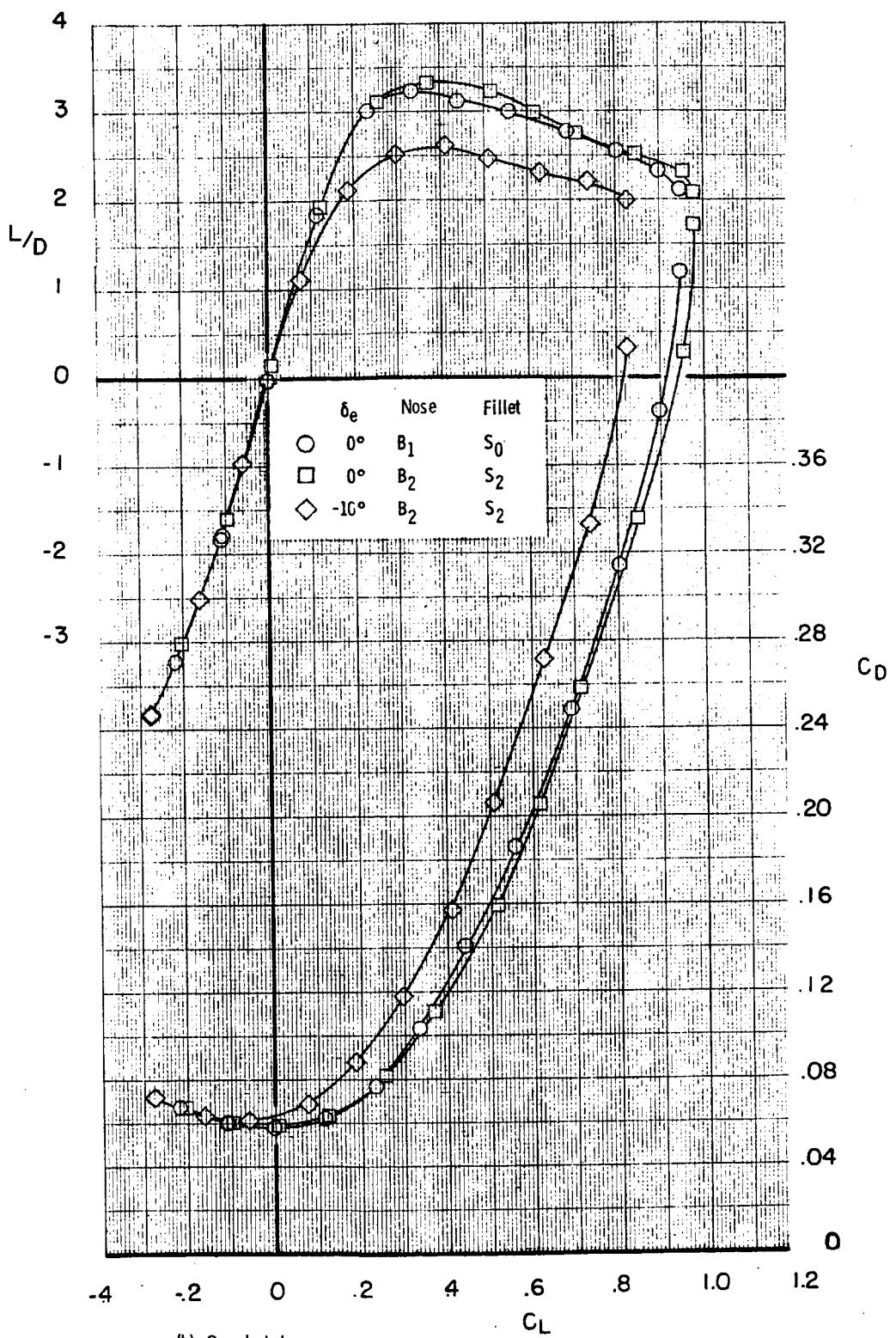


Figure 10. - Continued.



(b) Concluded

Figure 10. - Continued.

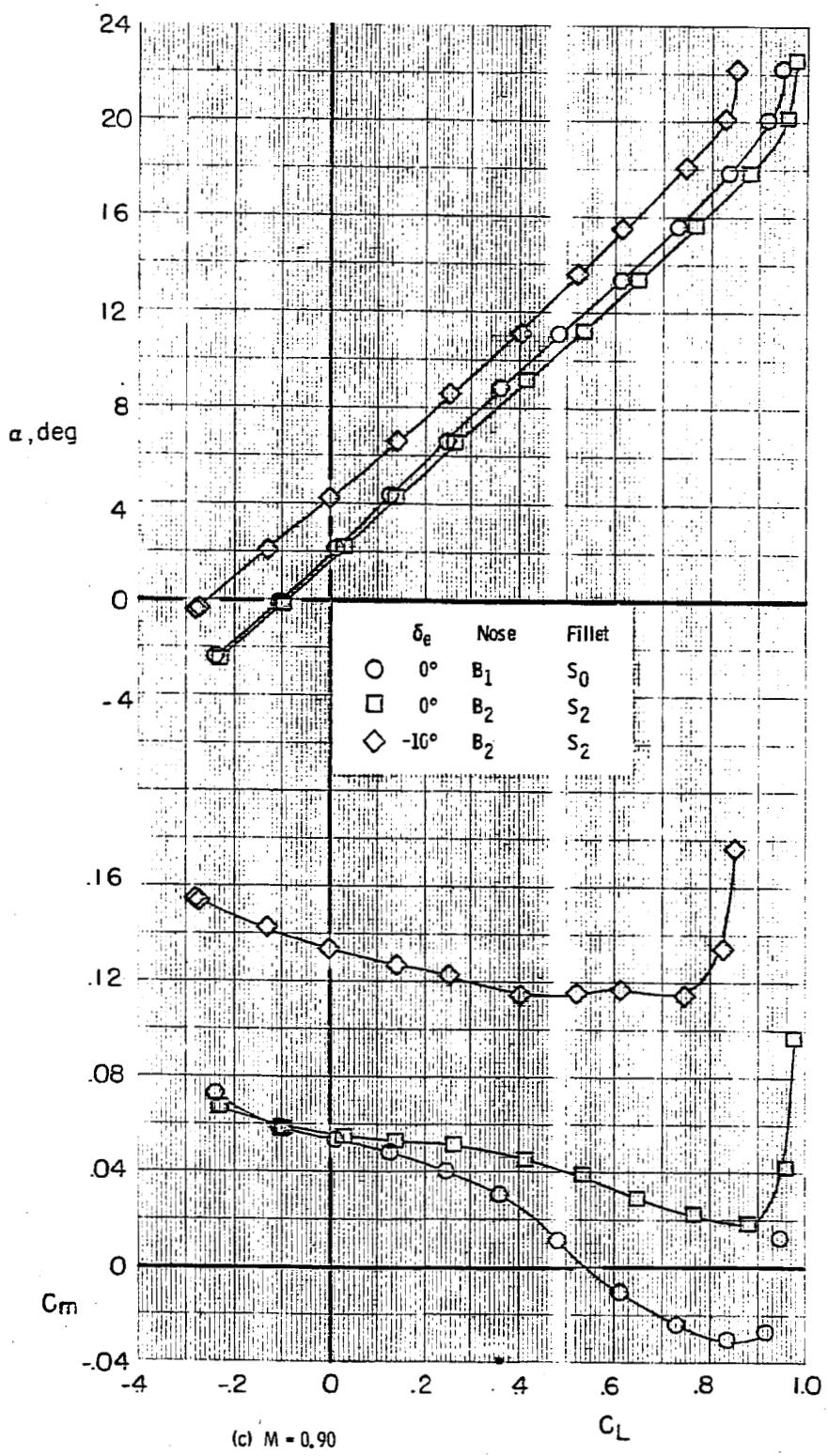
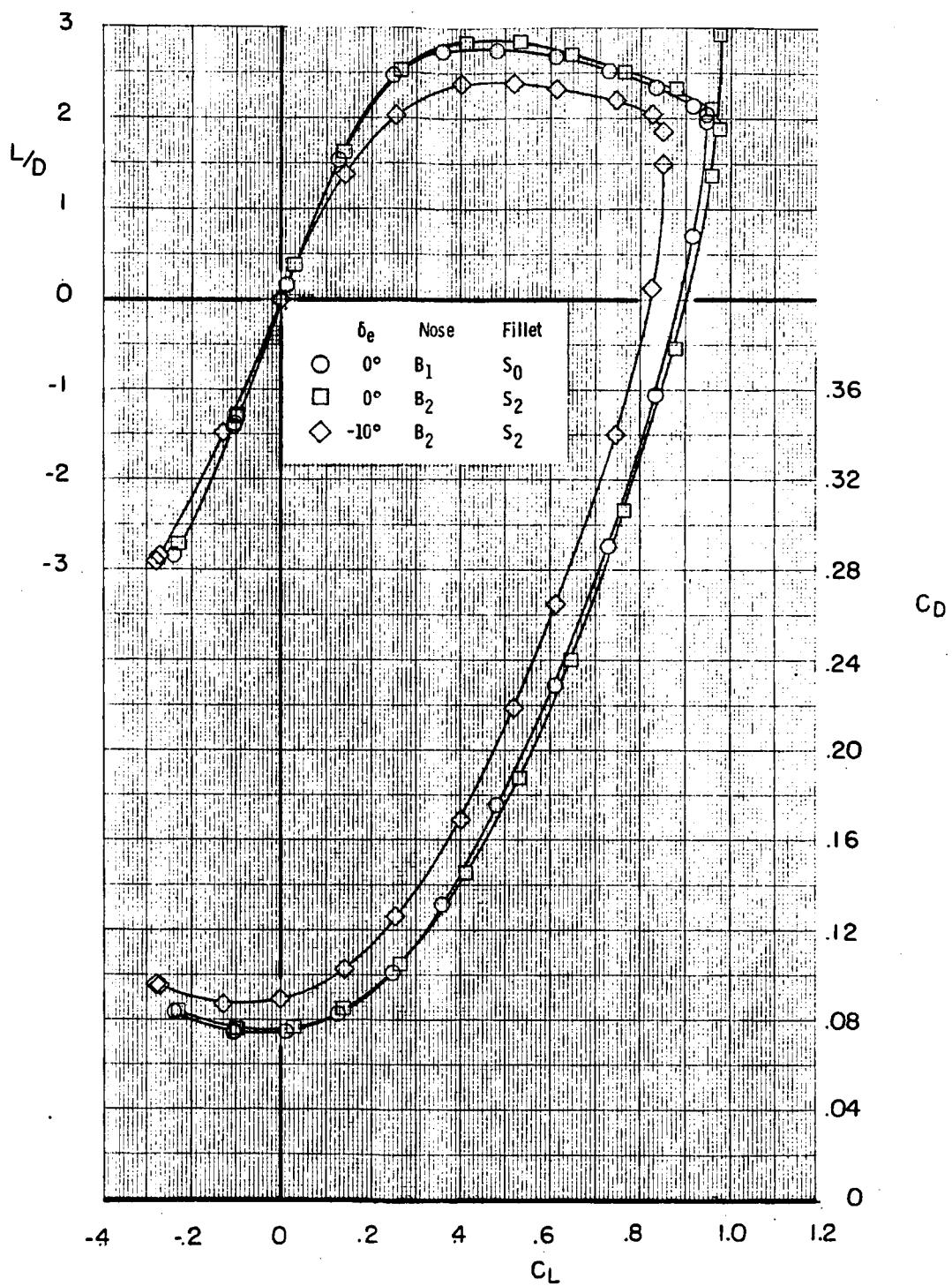


Figure 10. - Continued.



(c) Concluded

Figure 10.- Continued.

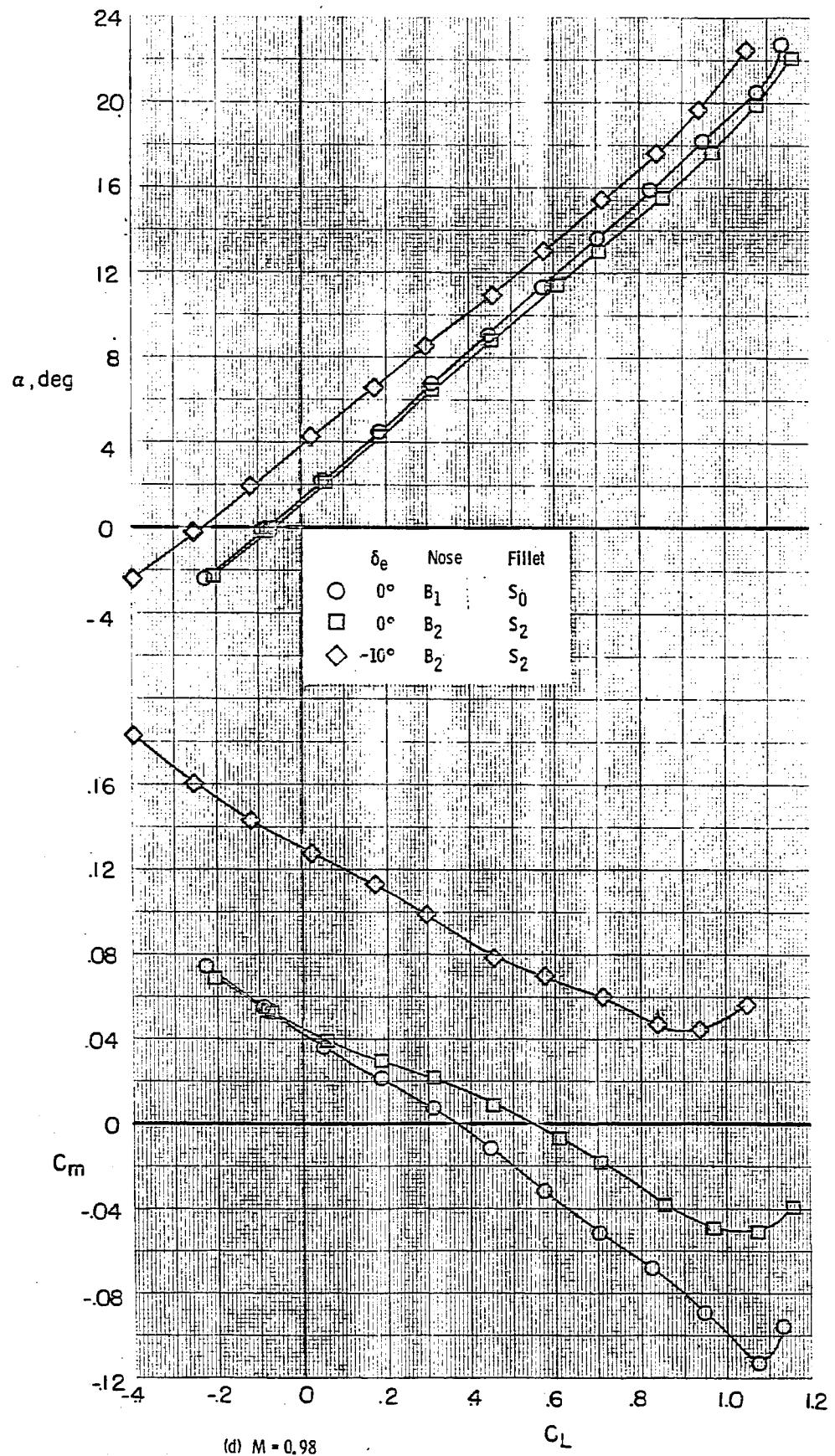
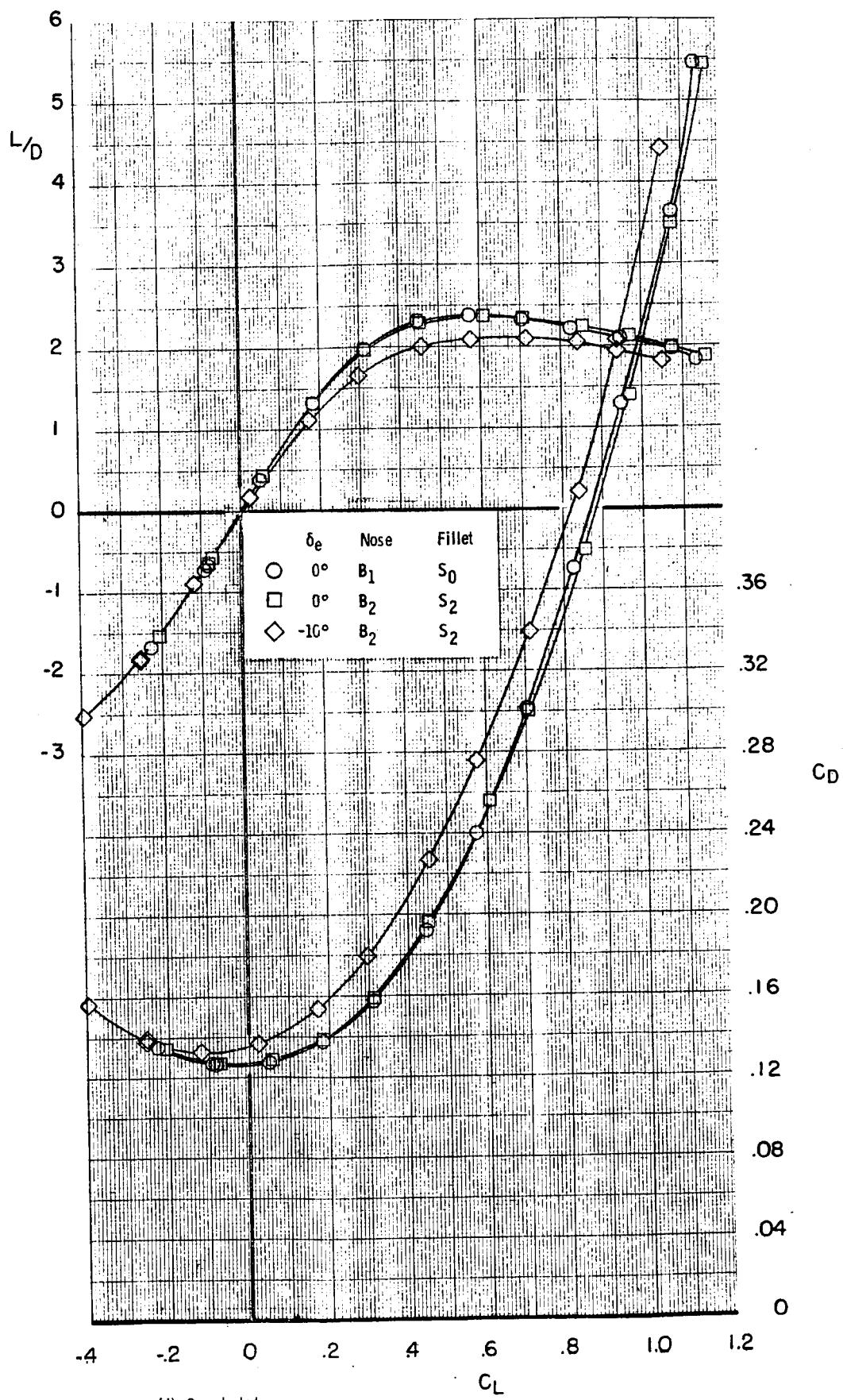


Figure 10.- Continued.



(d) Concluded

Figure 10. - Continued.

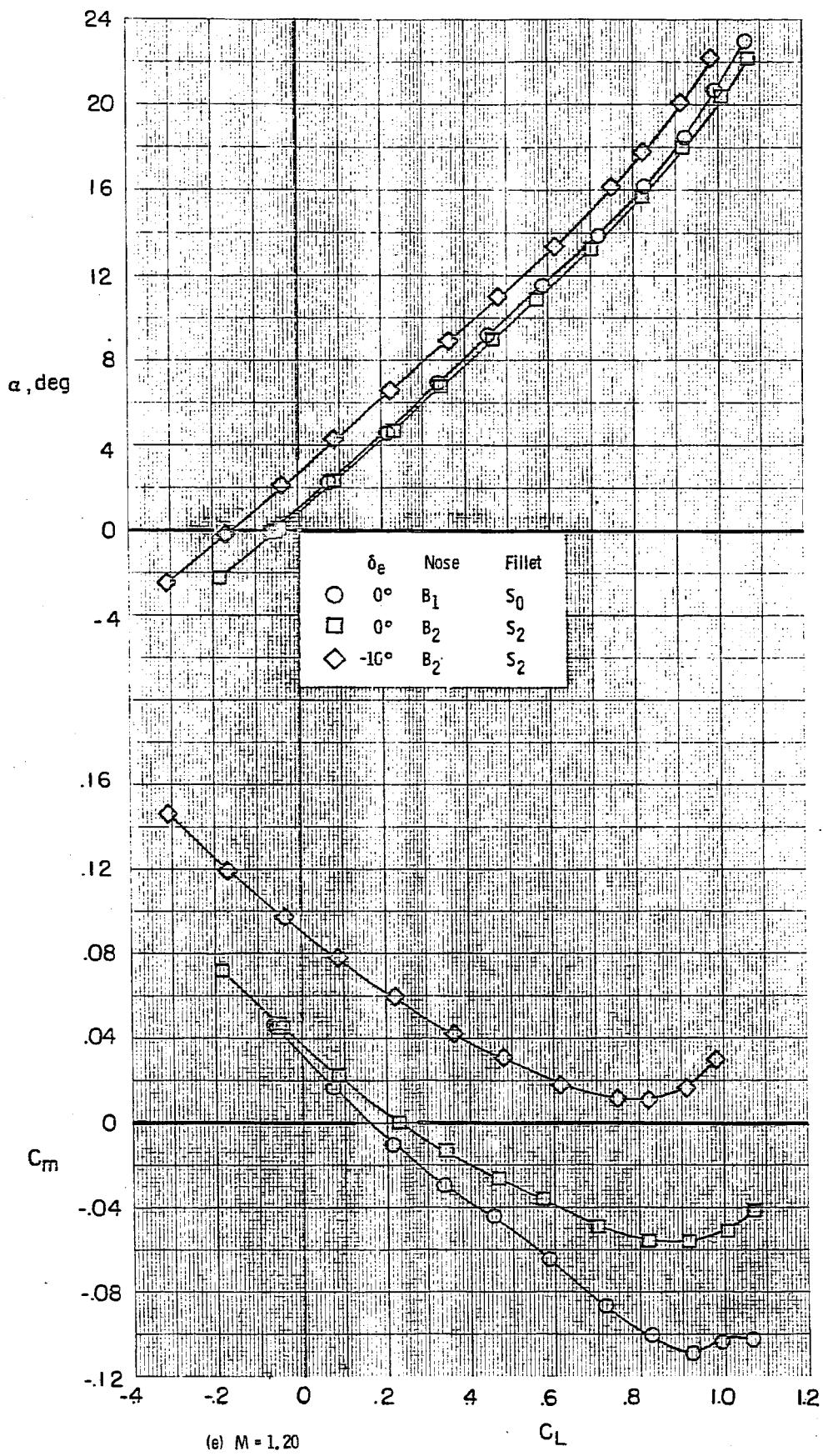
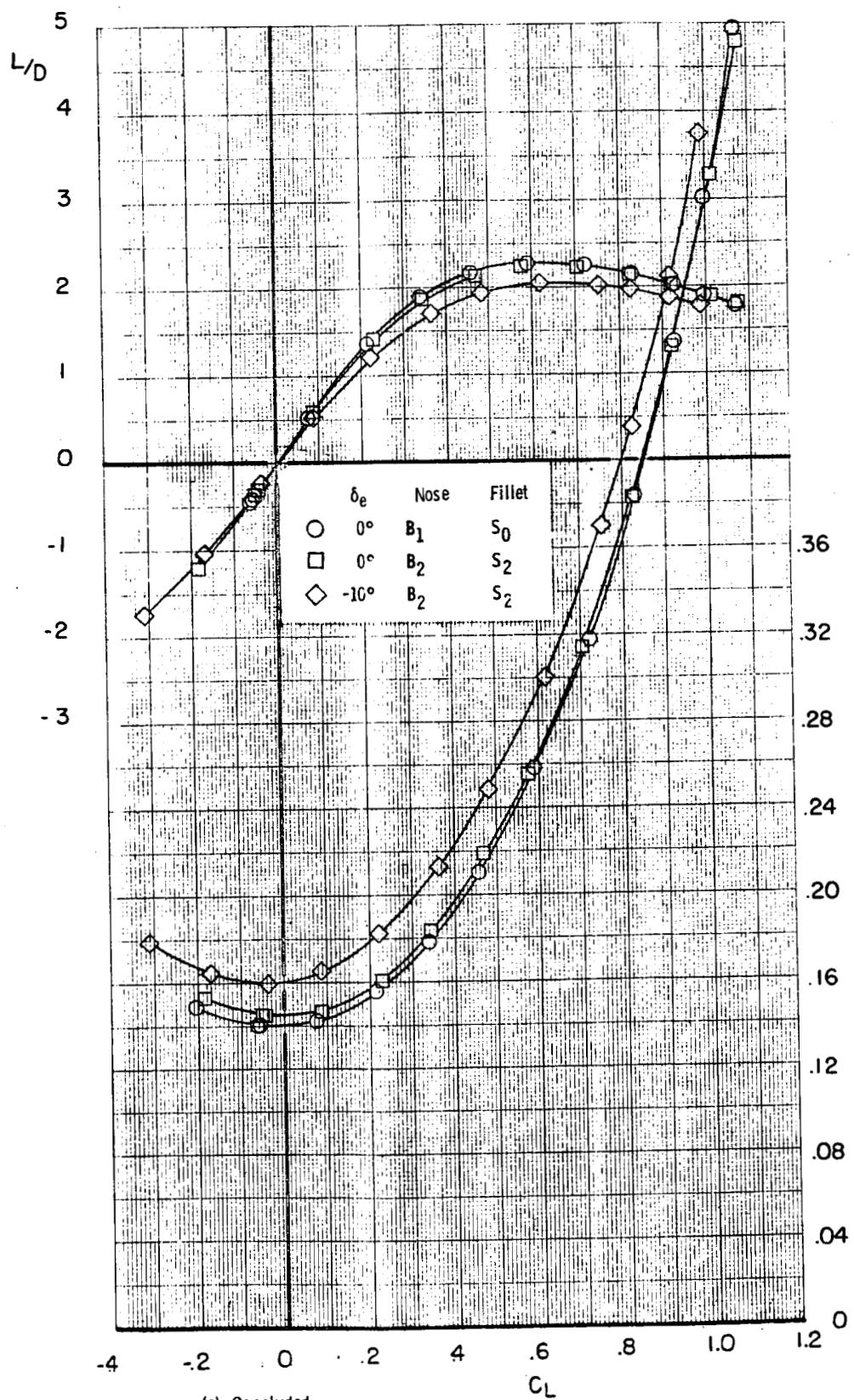


Figure 10(e) - Continued.



(e) Concluded

Figure 10.- Concluded.

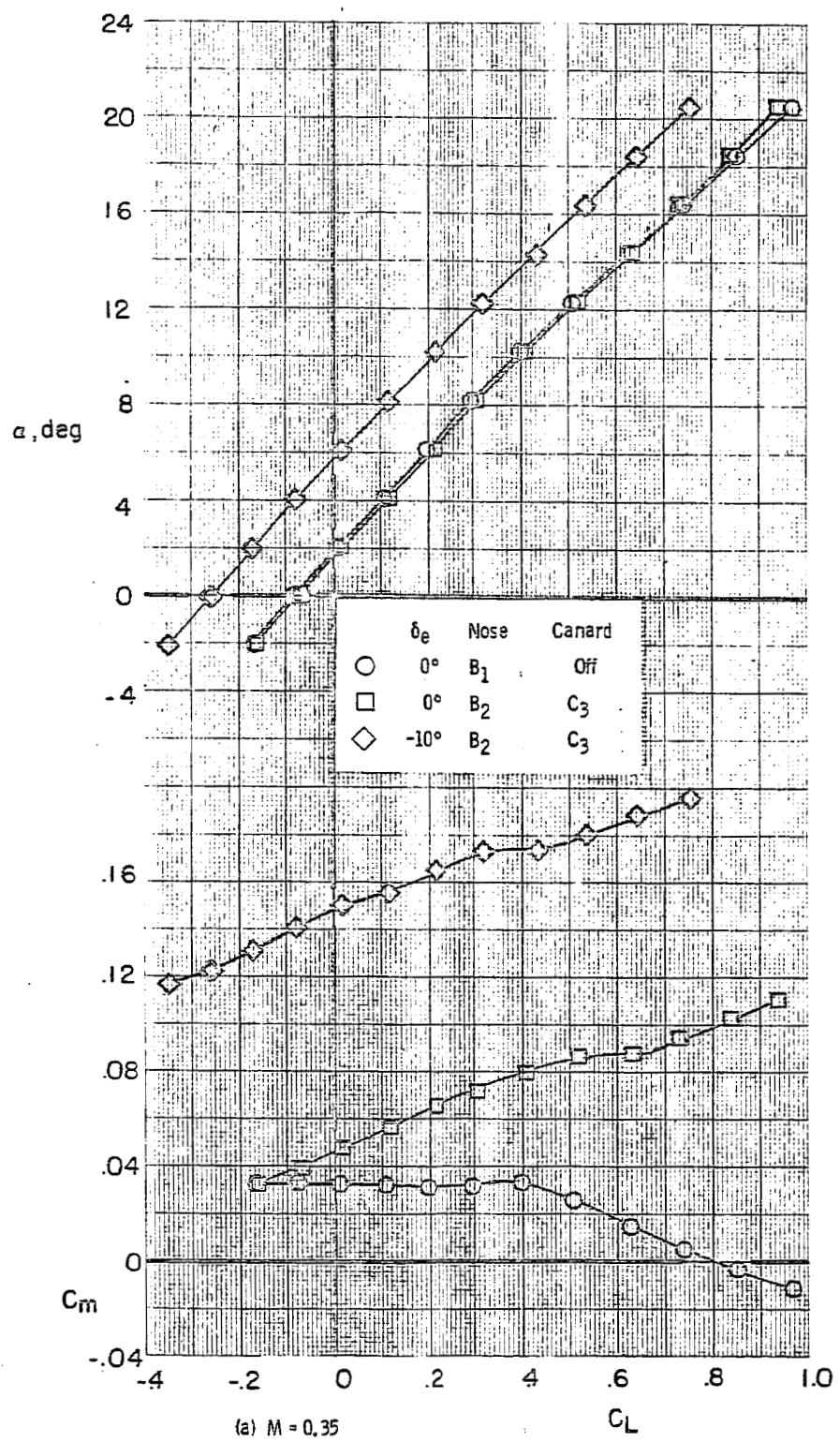
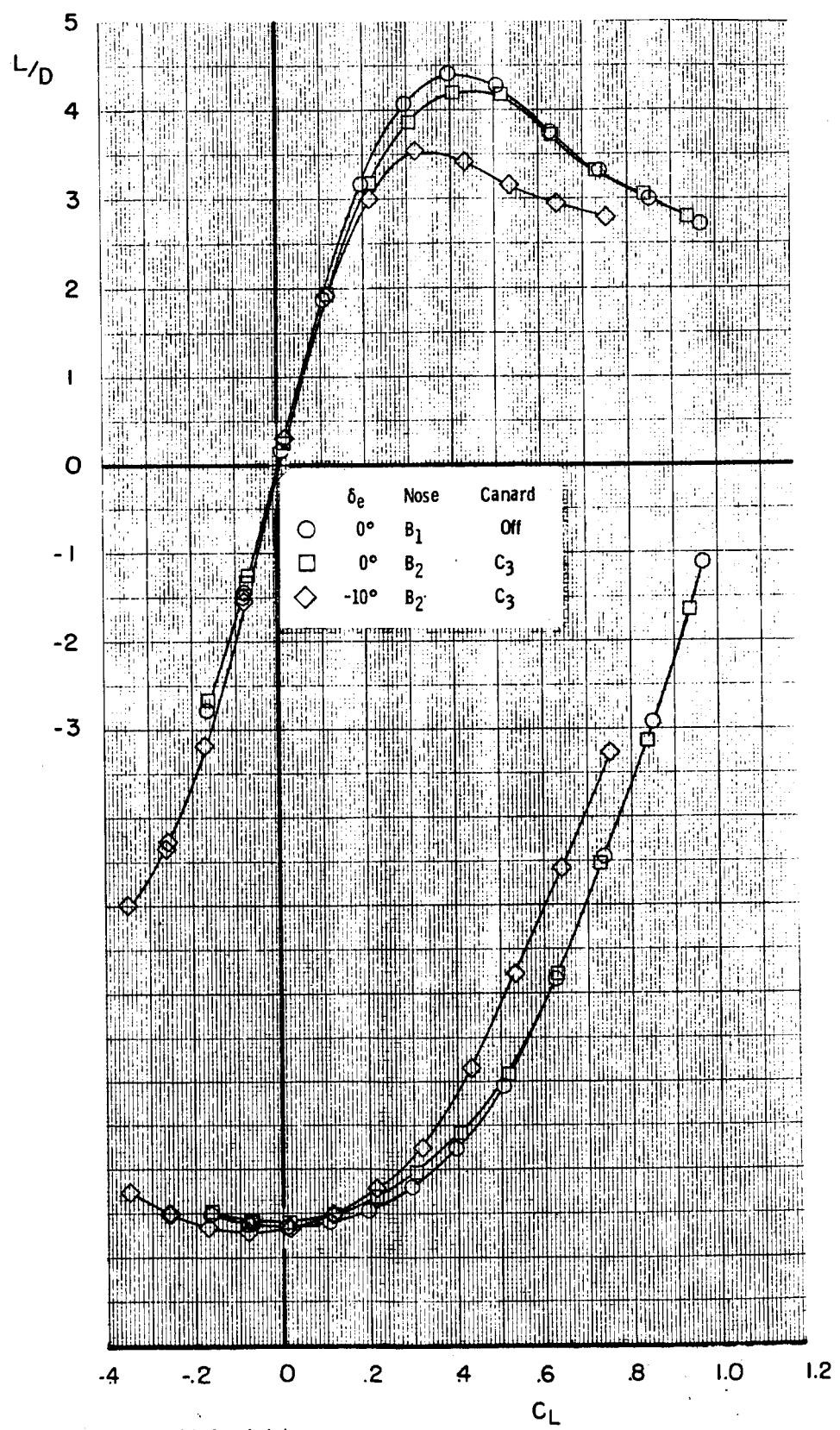
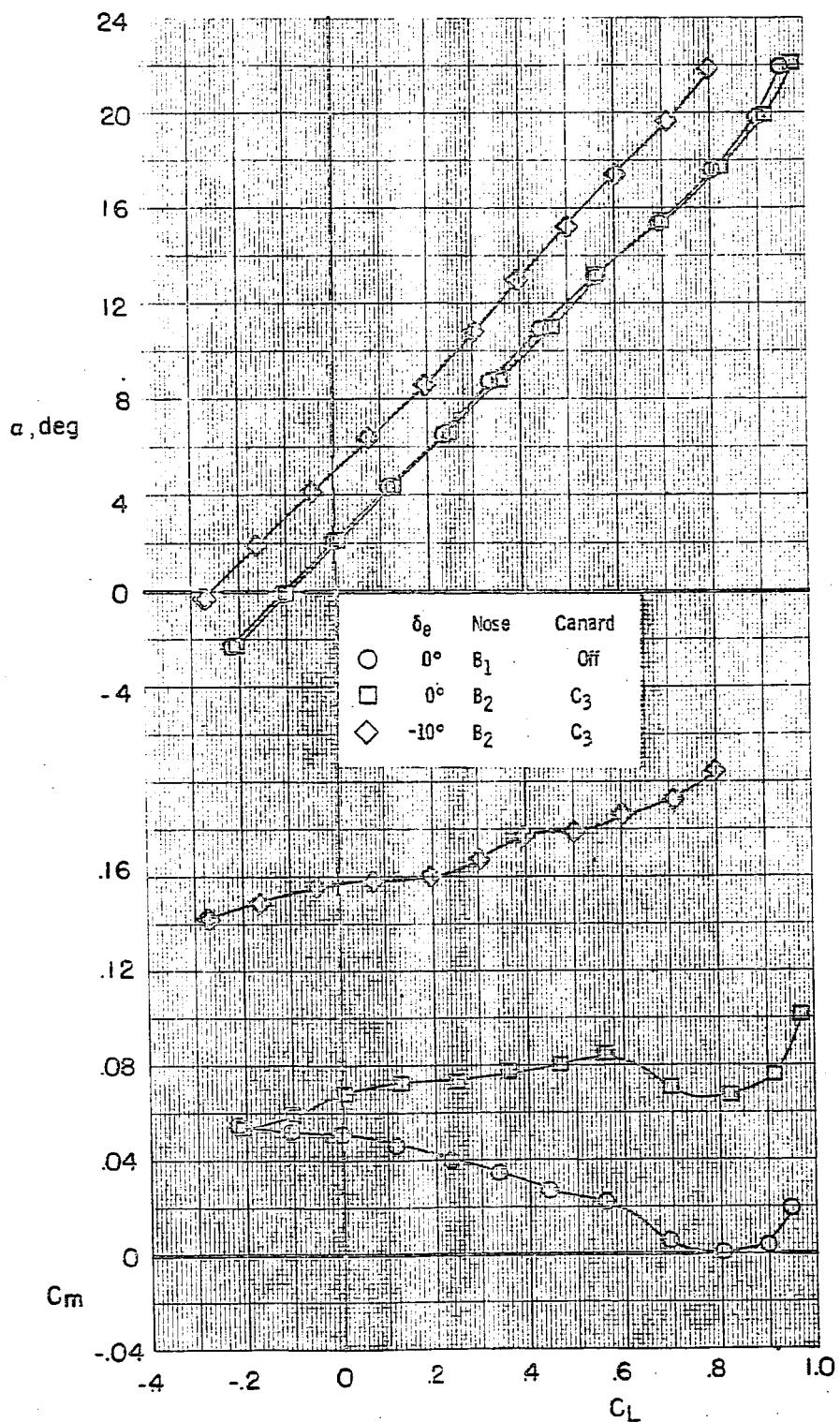


Figure 11. - Effect of fuselage forebody modification  $B_2$  in combination with canard  $C_3$  on the longitudinal aerodynamic characteristics for configuration  $B_1WVS_0EF$ .  $\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .



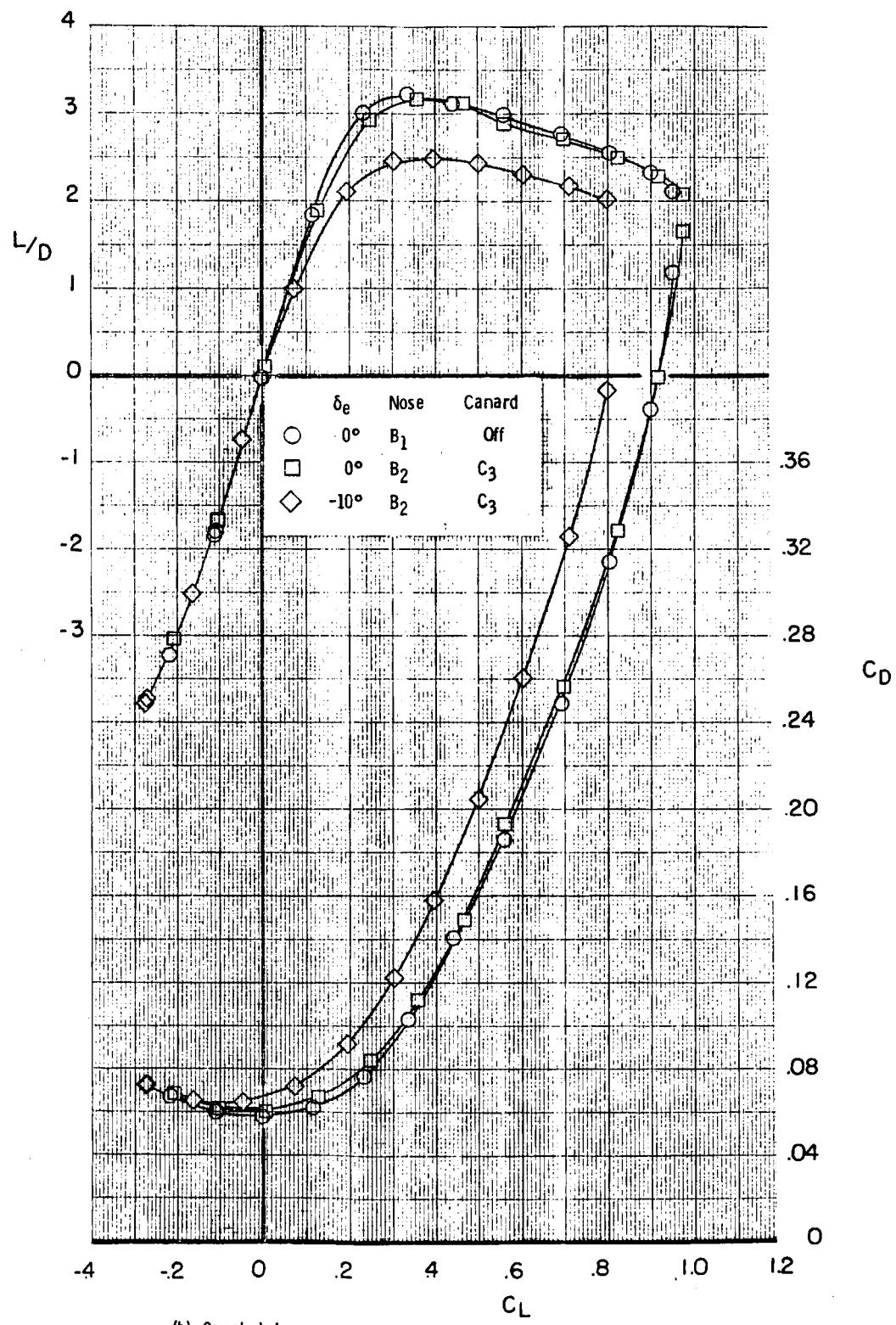
(a) Concluded

Figure 11. - Continued.



(b)  $M = 0.80$

Figure 11.- Continued.



(b) Concluded

Figure 11. - Continued.

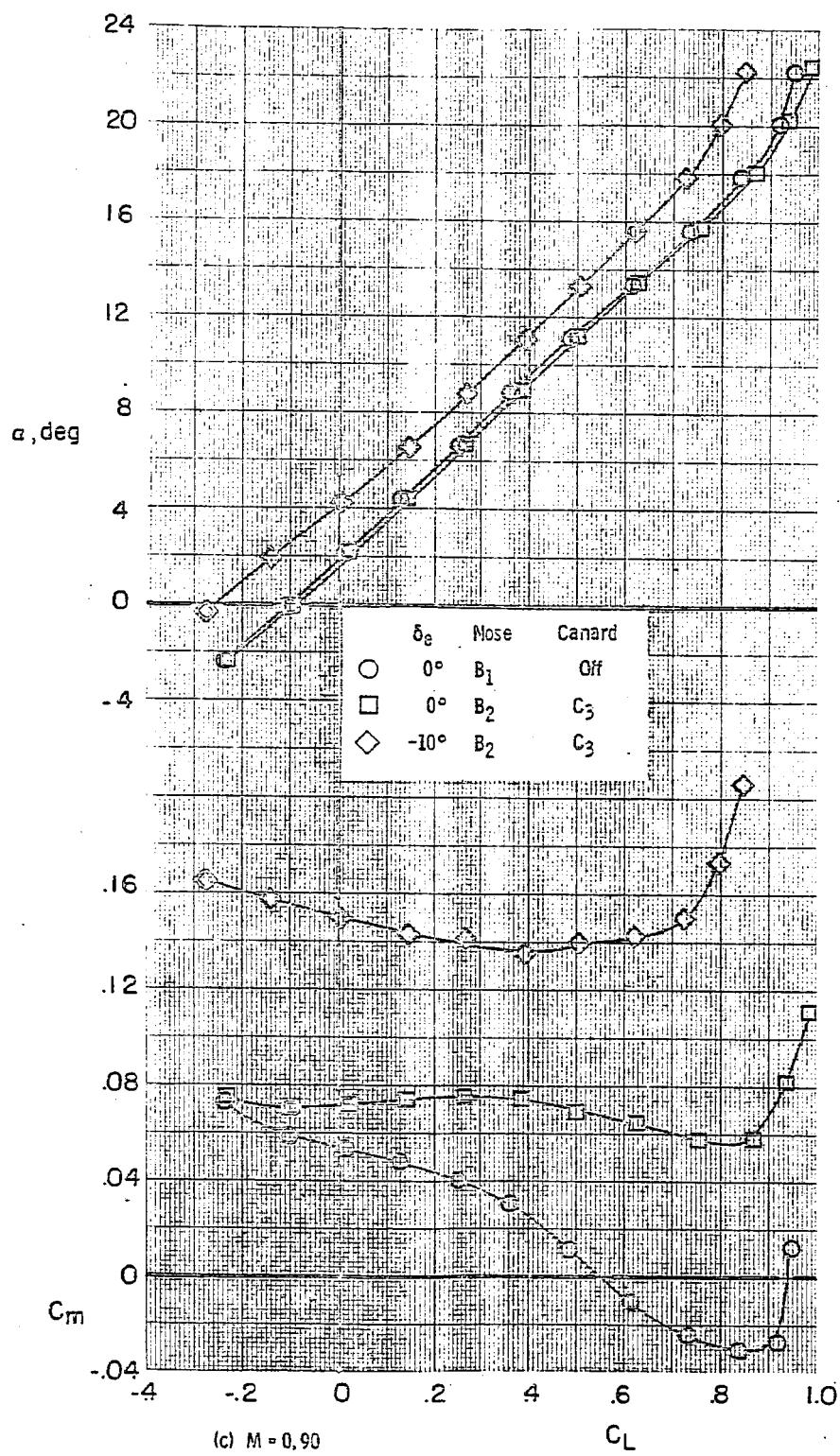
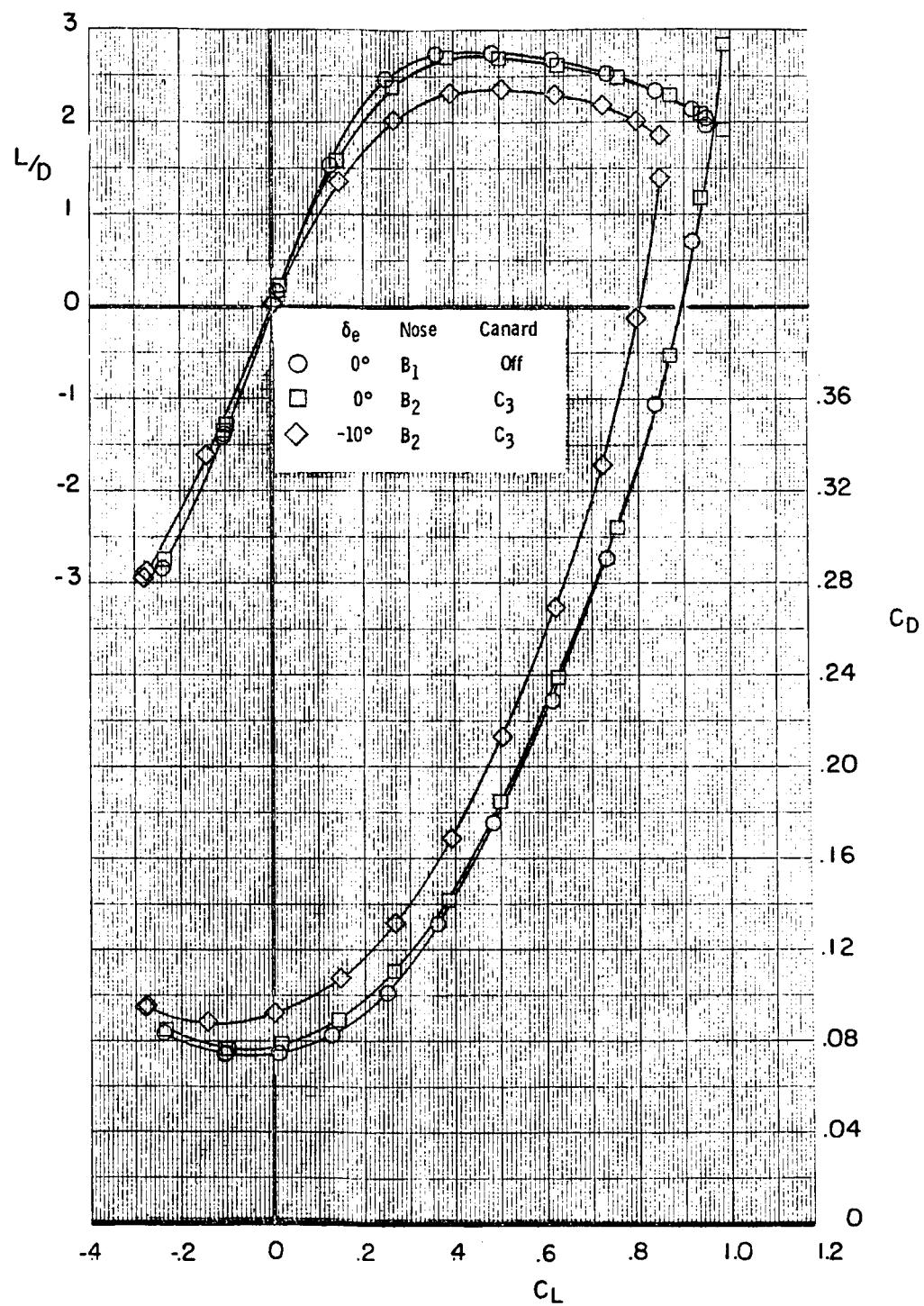
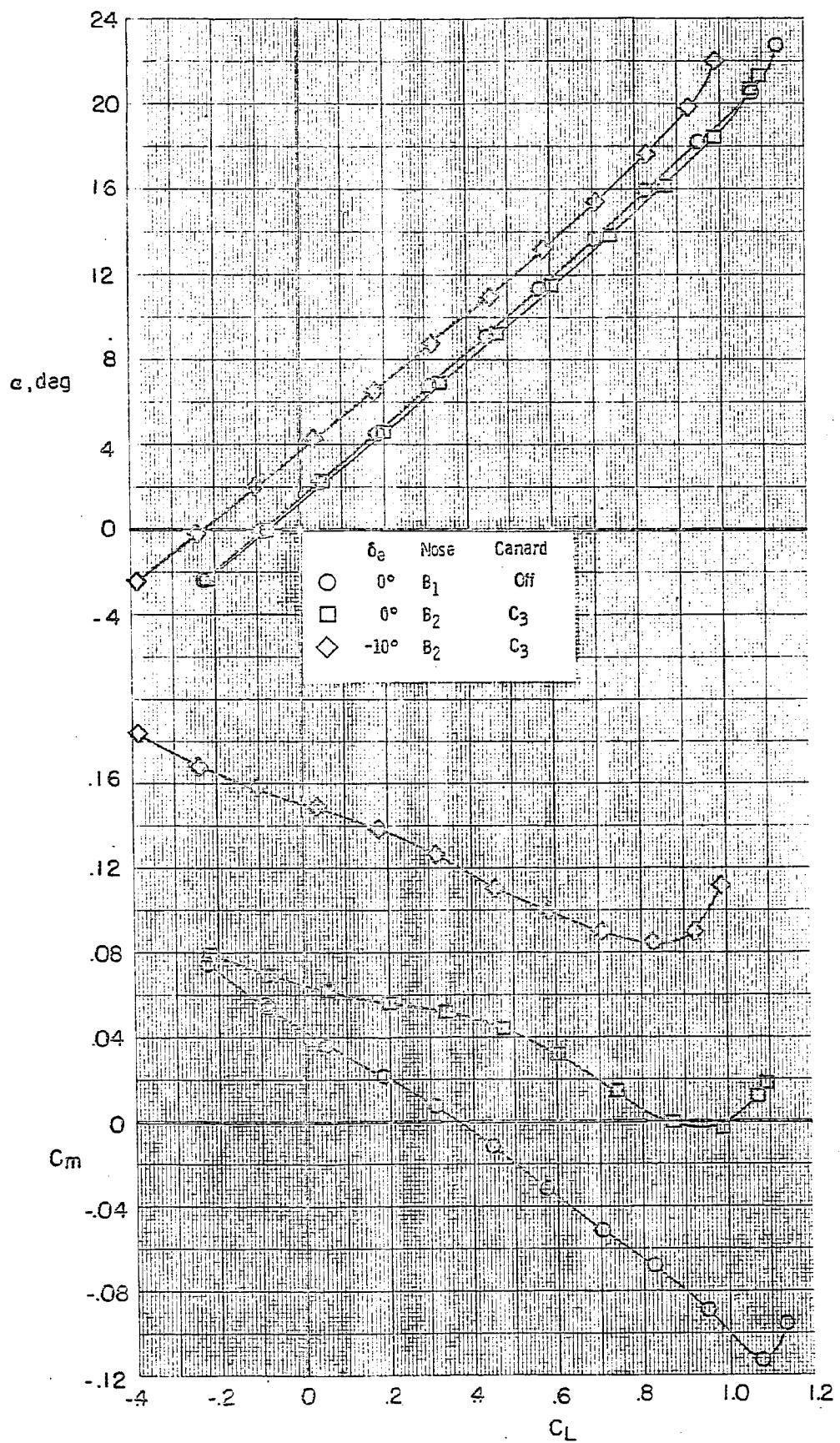


Figure 11. - Continued.



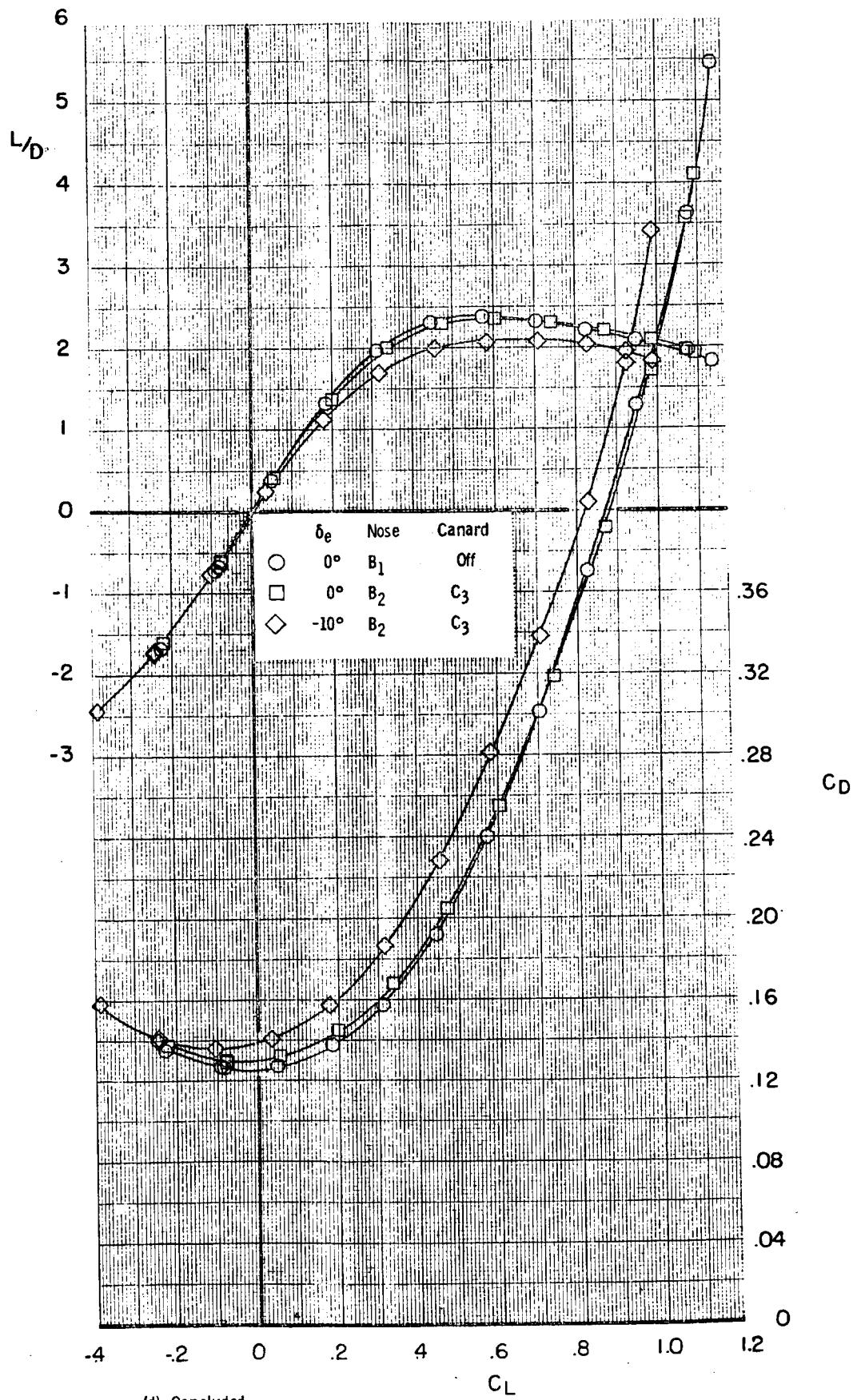
(c) Concluded

Figure 11. - Continued.

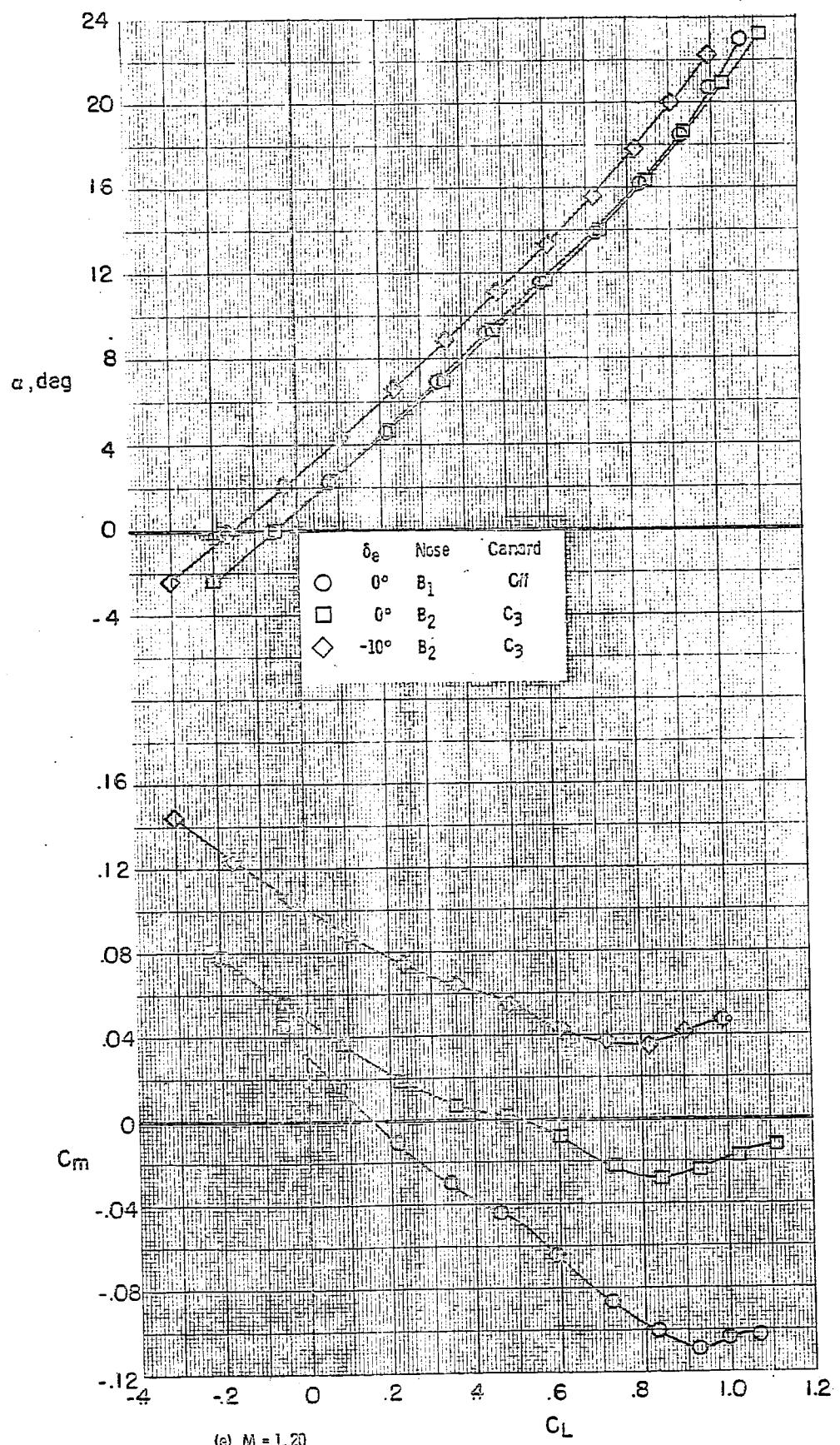


(d)  $M = 0.98$

Figure 11. - Continued.

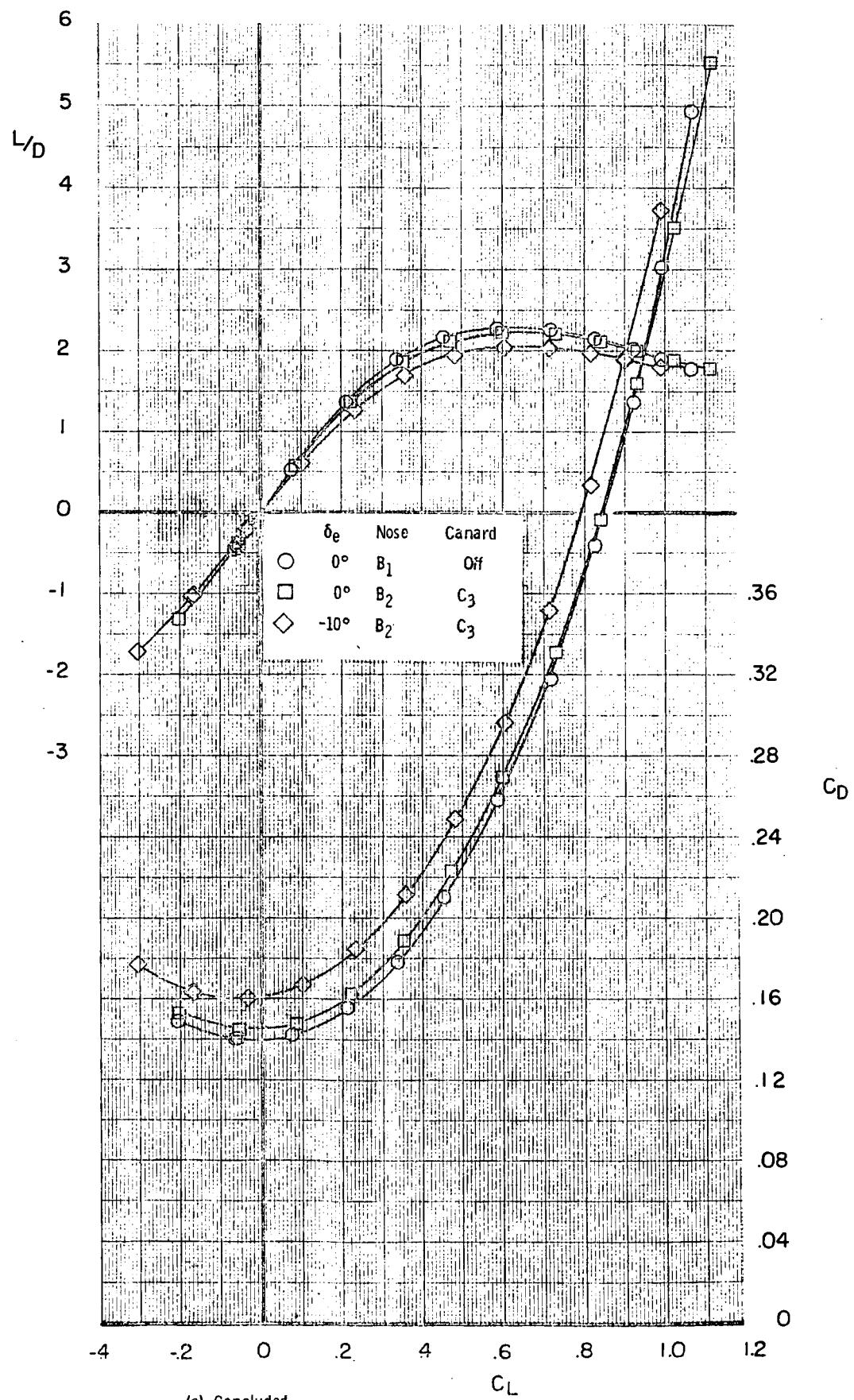


(d) Concluded  
Figure 11. - Continued.



(e)  $M = 1.20$

Figure 11(e) - Continued.



(e) Concluded  
Figure 11. - Concluded.

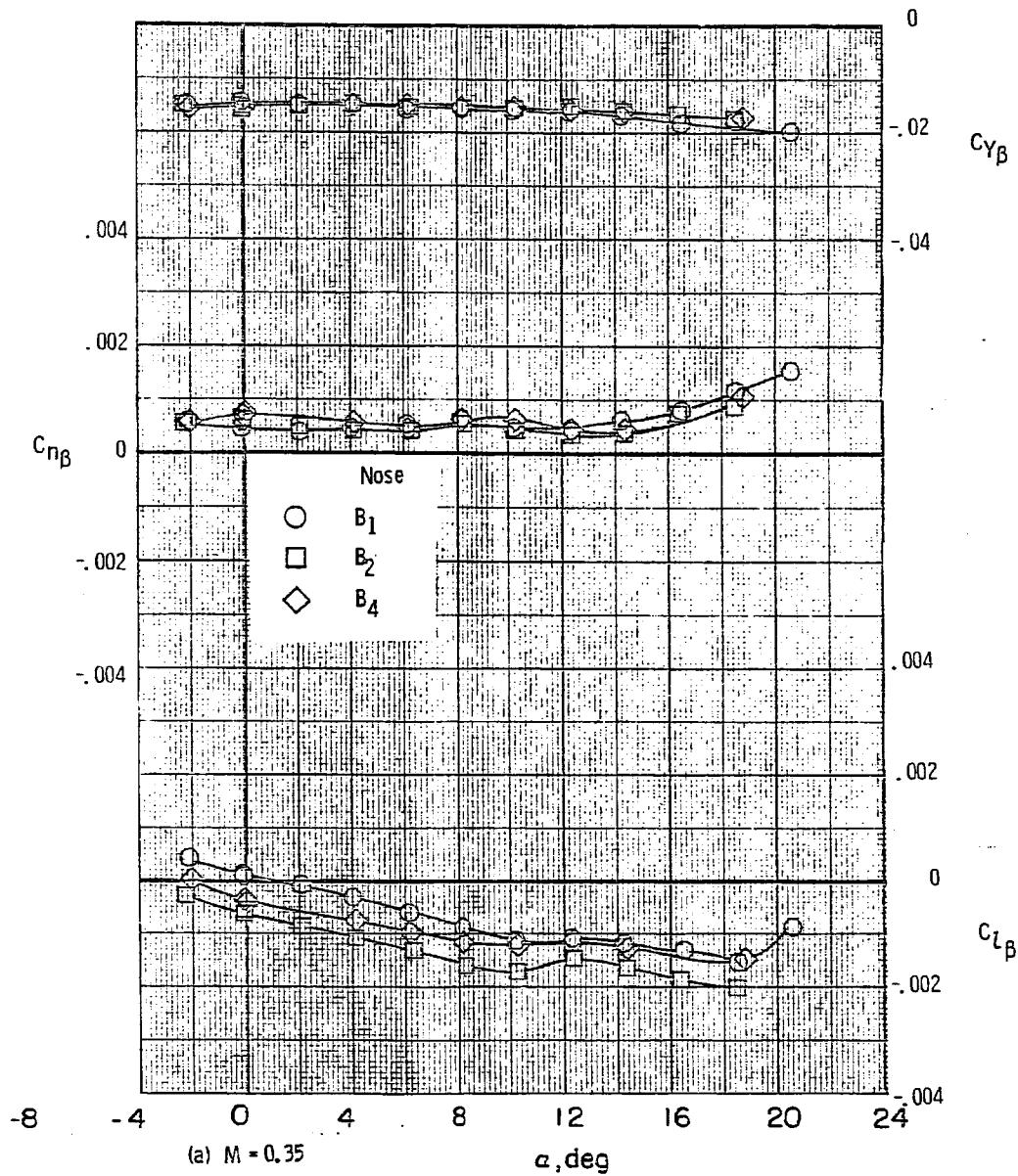
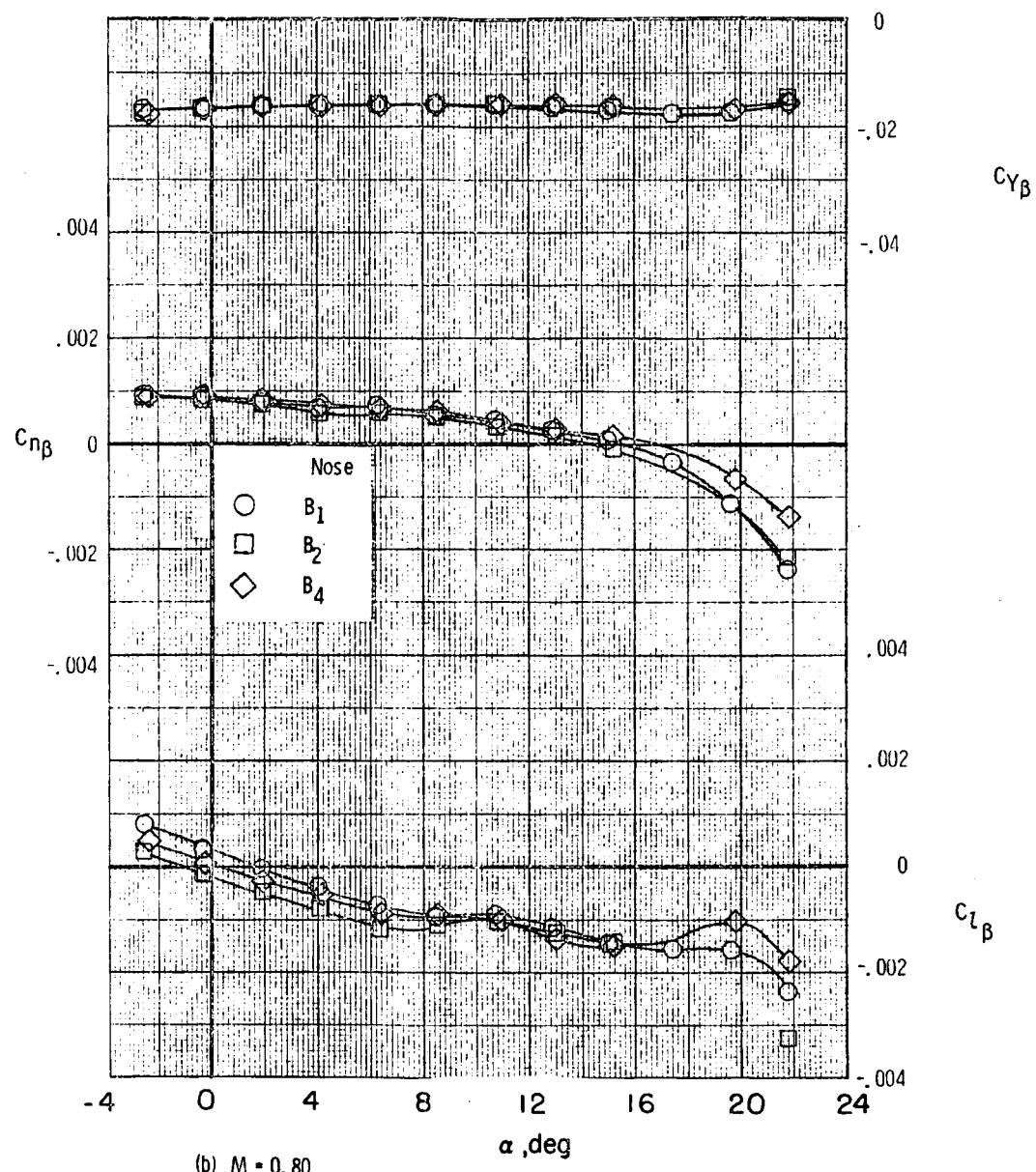


Figure 12. - Lateral-directional aerodynamic characteristics for the baseline configuration

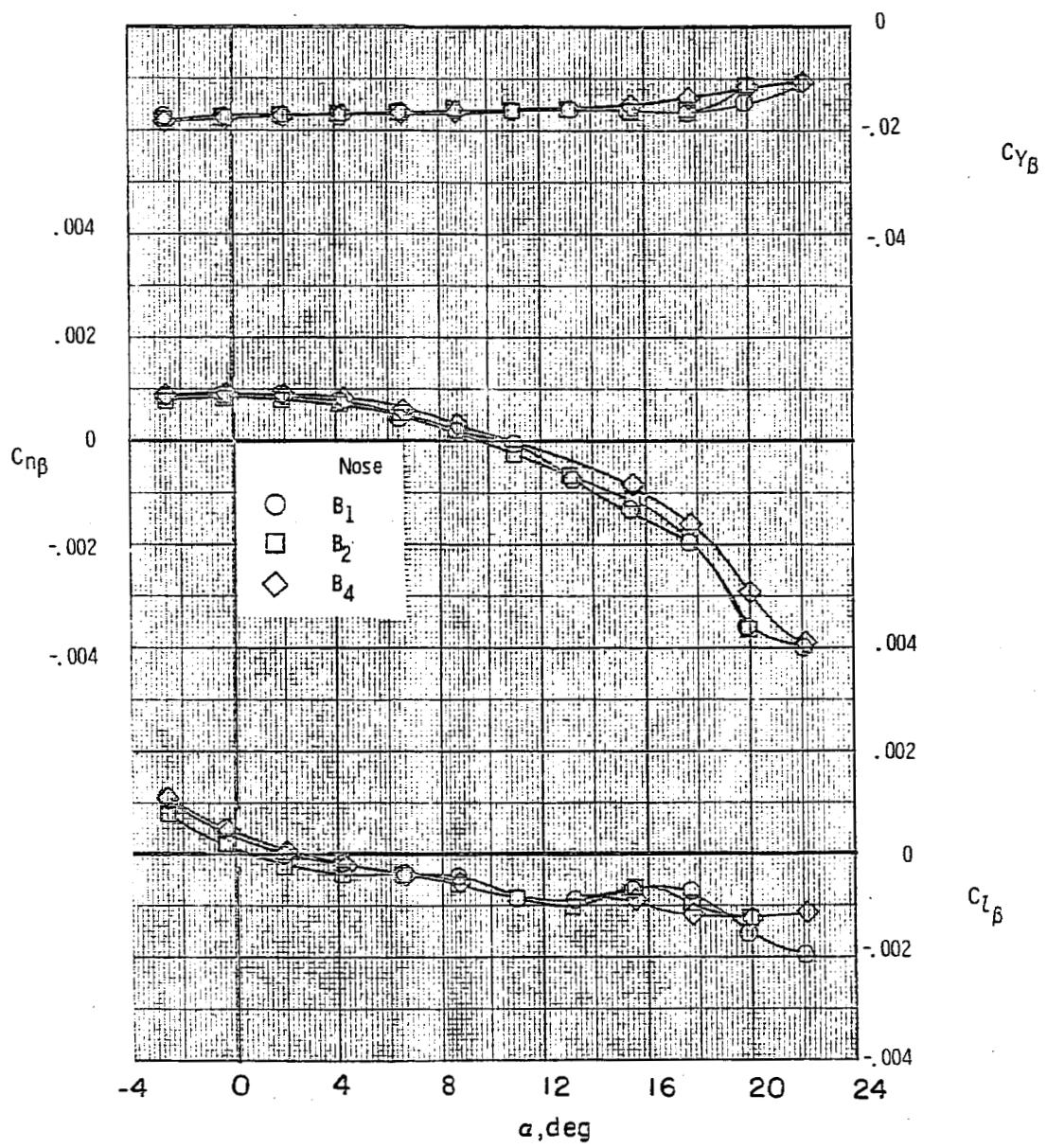
$B_1WVS_0EF$  with and without fuselage forebody modifications  $B_2$  and  $B_4$ .  $\delta_e = -10^\circ$

$\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .



(b)  $M = 0.80$

Figure 12. - Continued.



(c)  $M = 0.90$

Figure 12. - Continued.

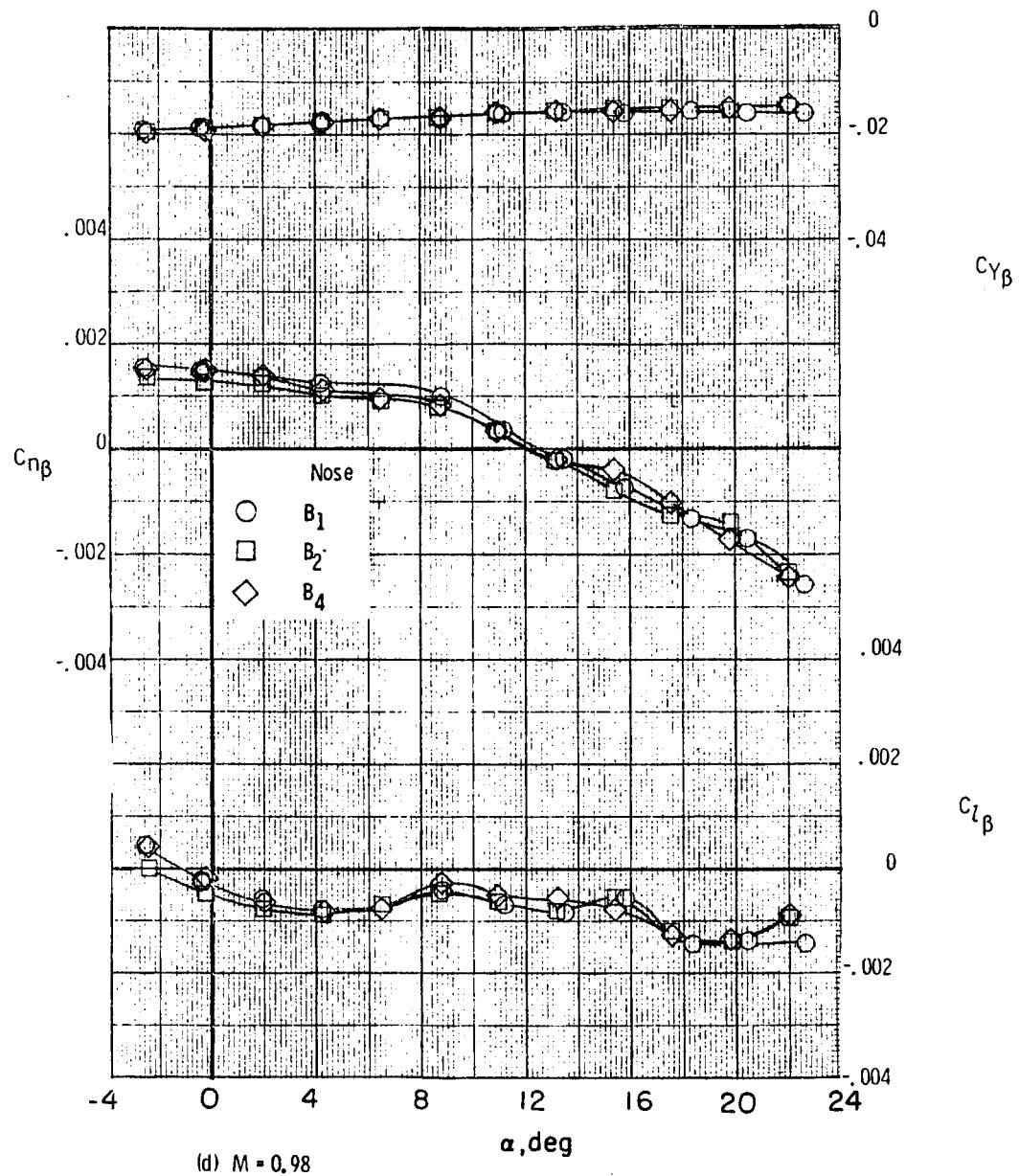


Figure 12. - Continued.

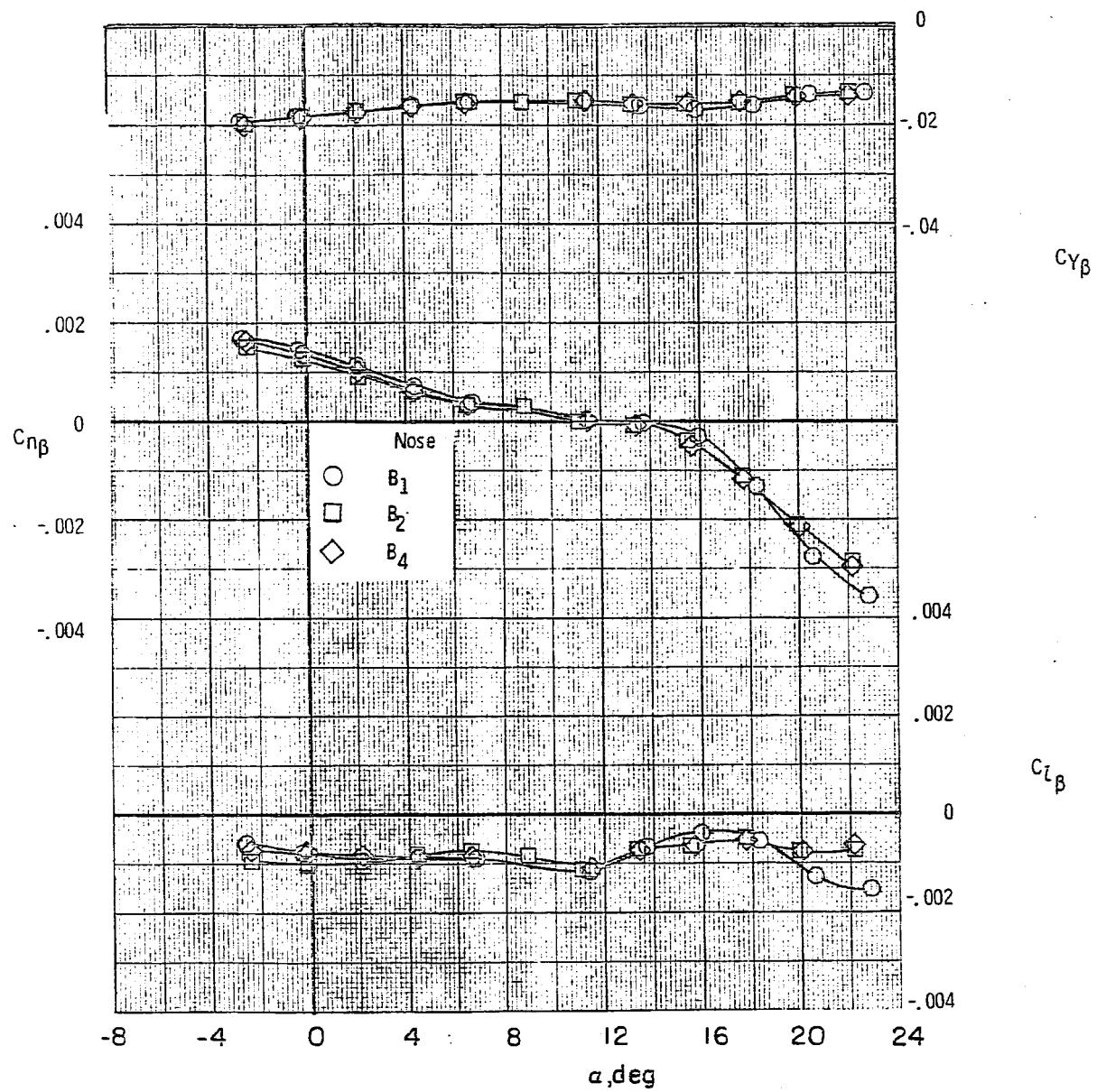


Figure 12. - Concluded.

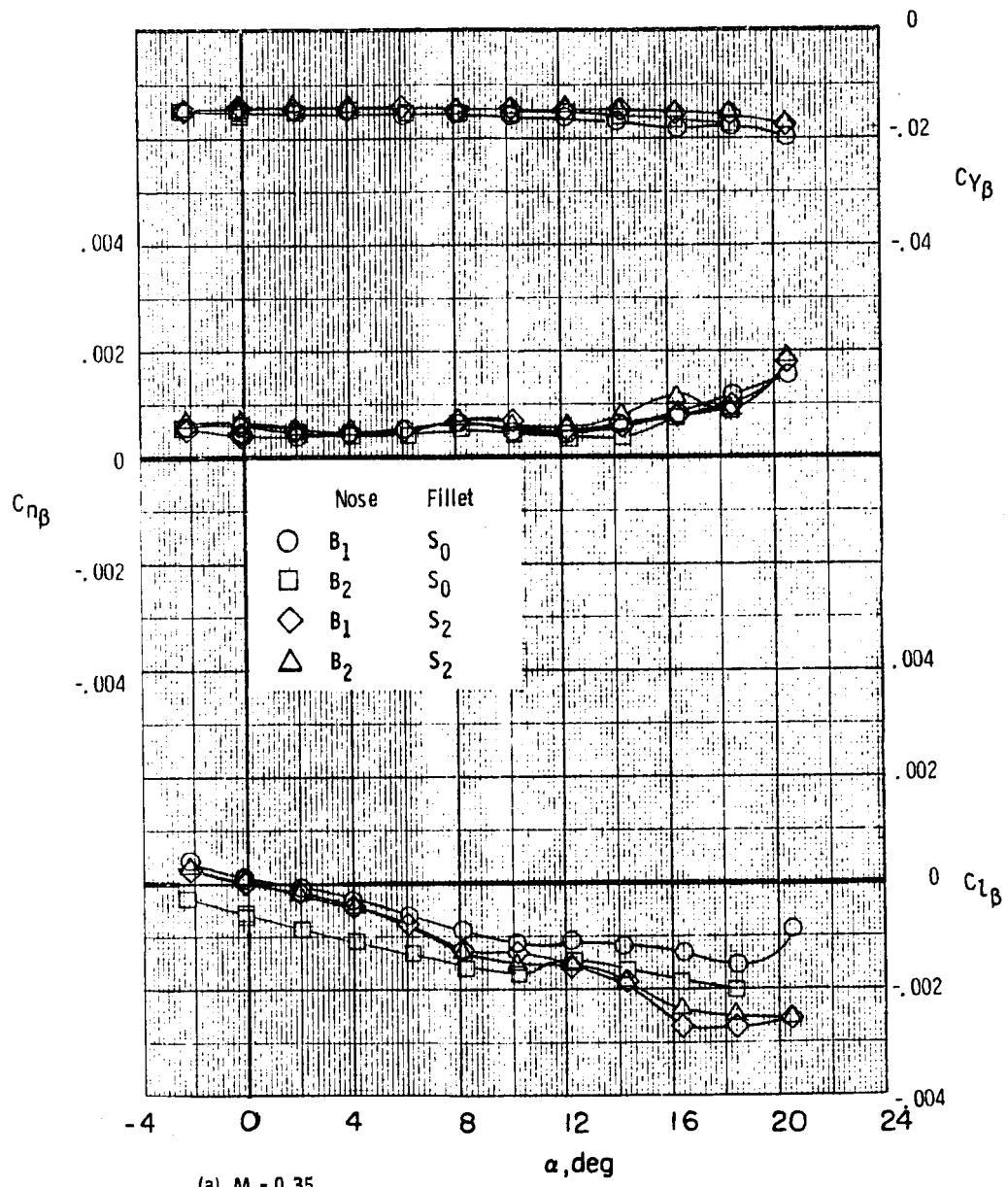
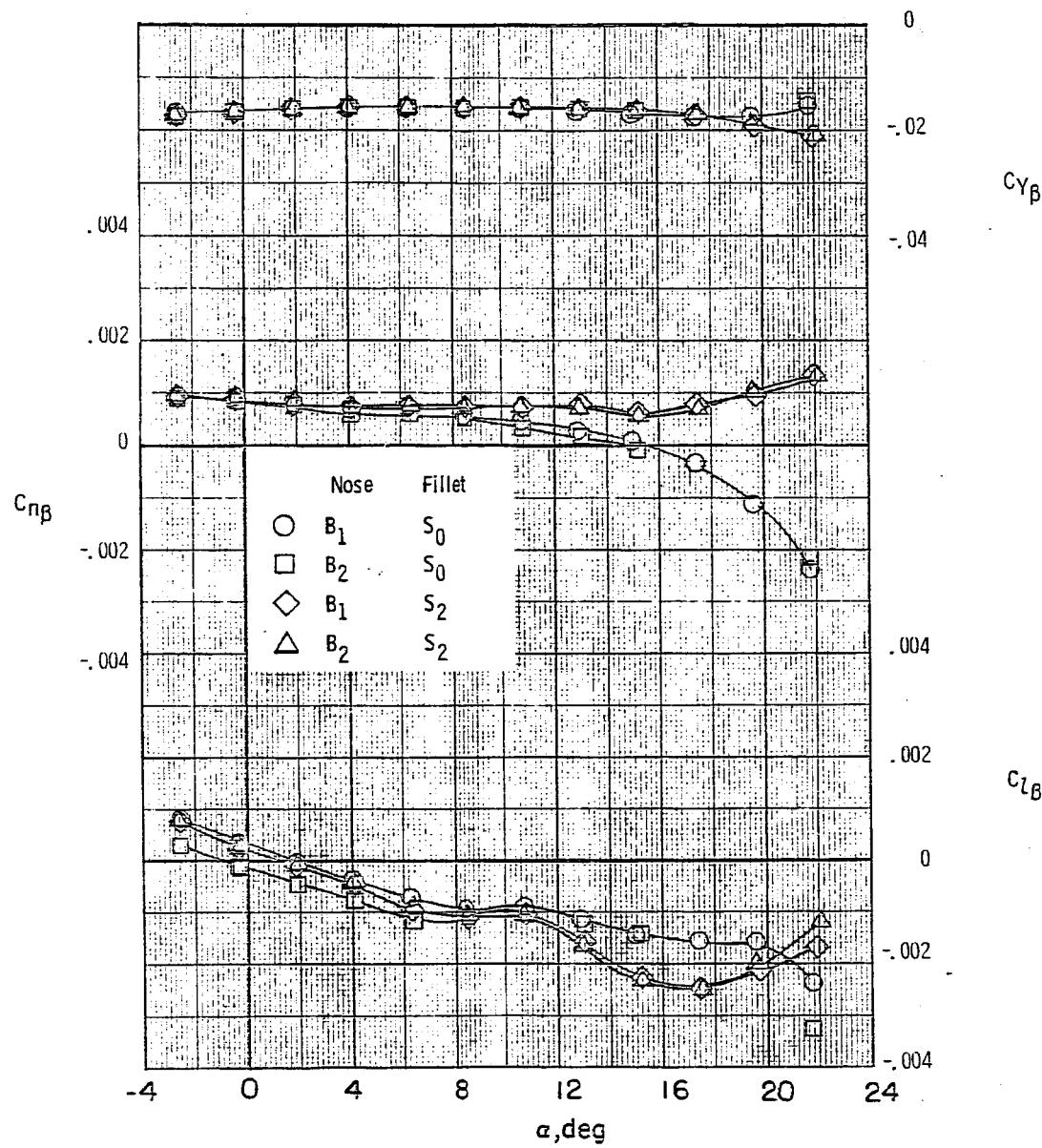
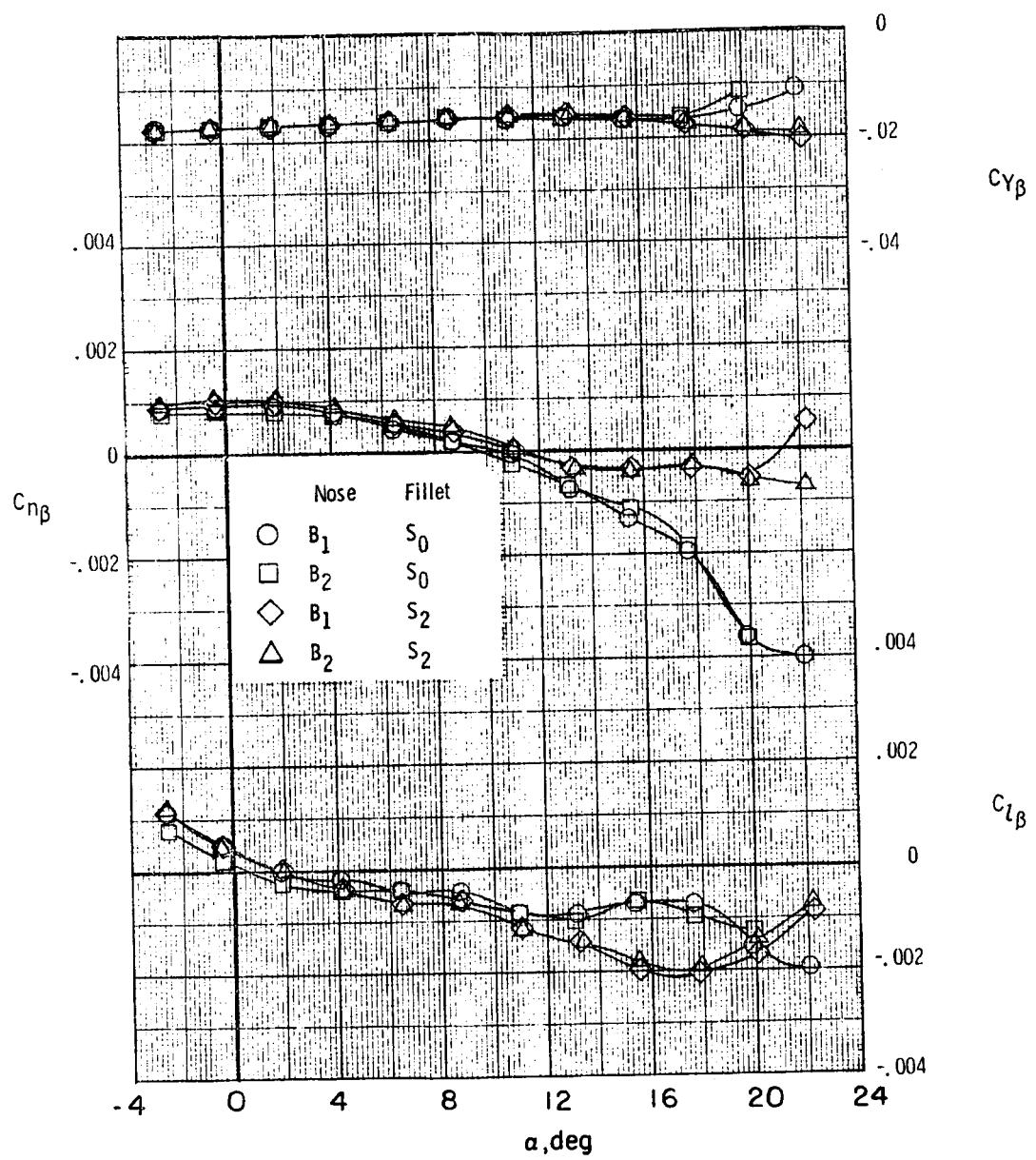


Figure 13. - Effects of fuselage forebody modification  $B_2$  and planform fillet  $S_2$  on the lateral-directional aerodynamic characteristics for configuration  $B_1WVS_0EF$ .  
 $\delta_e = -10^\circ$ ;  $\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .



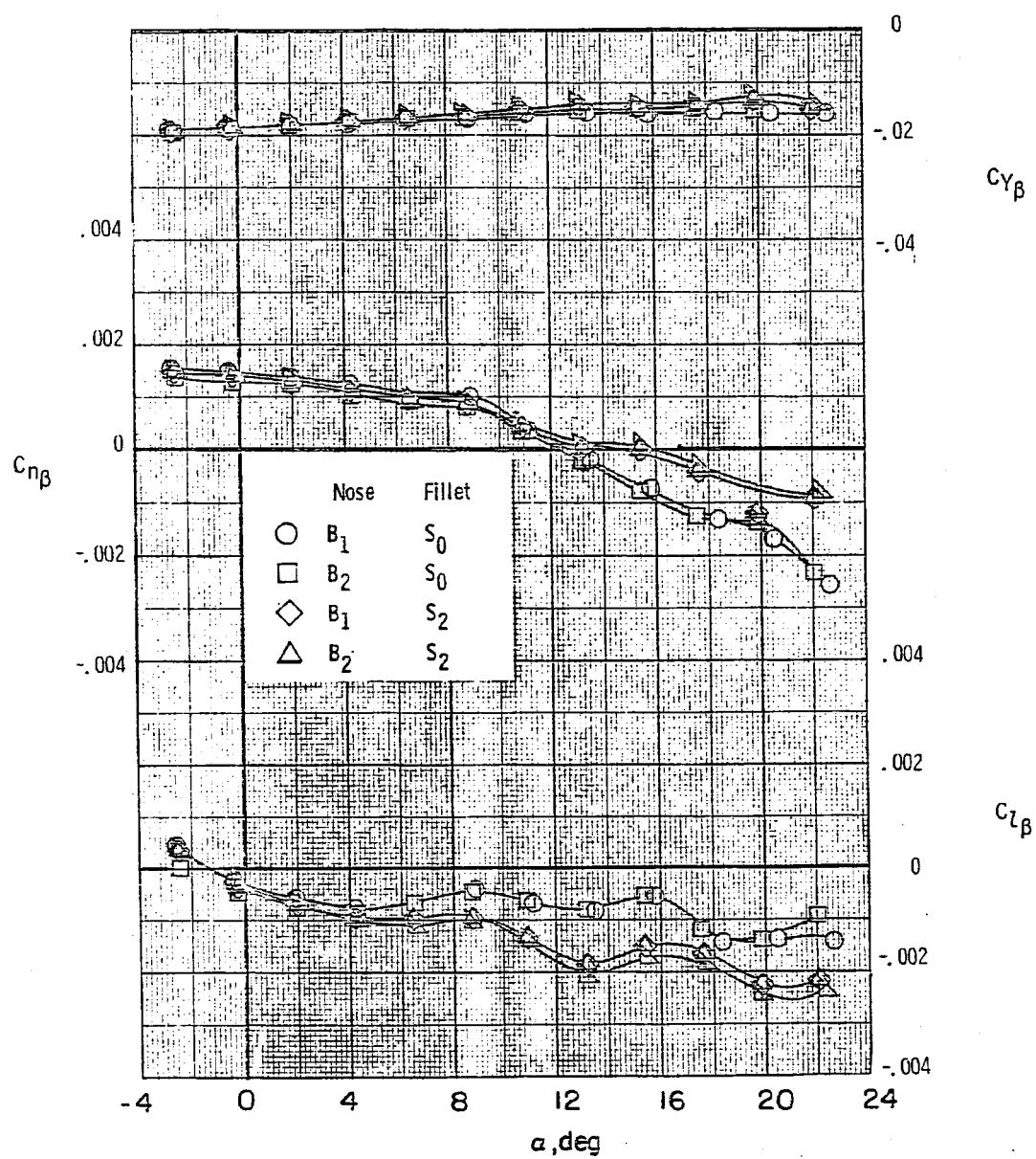
(b)  $M = 0.80$

Figure 13. - Continued.



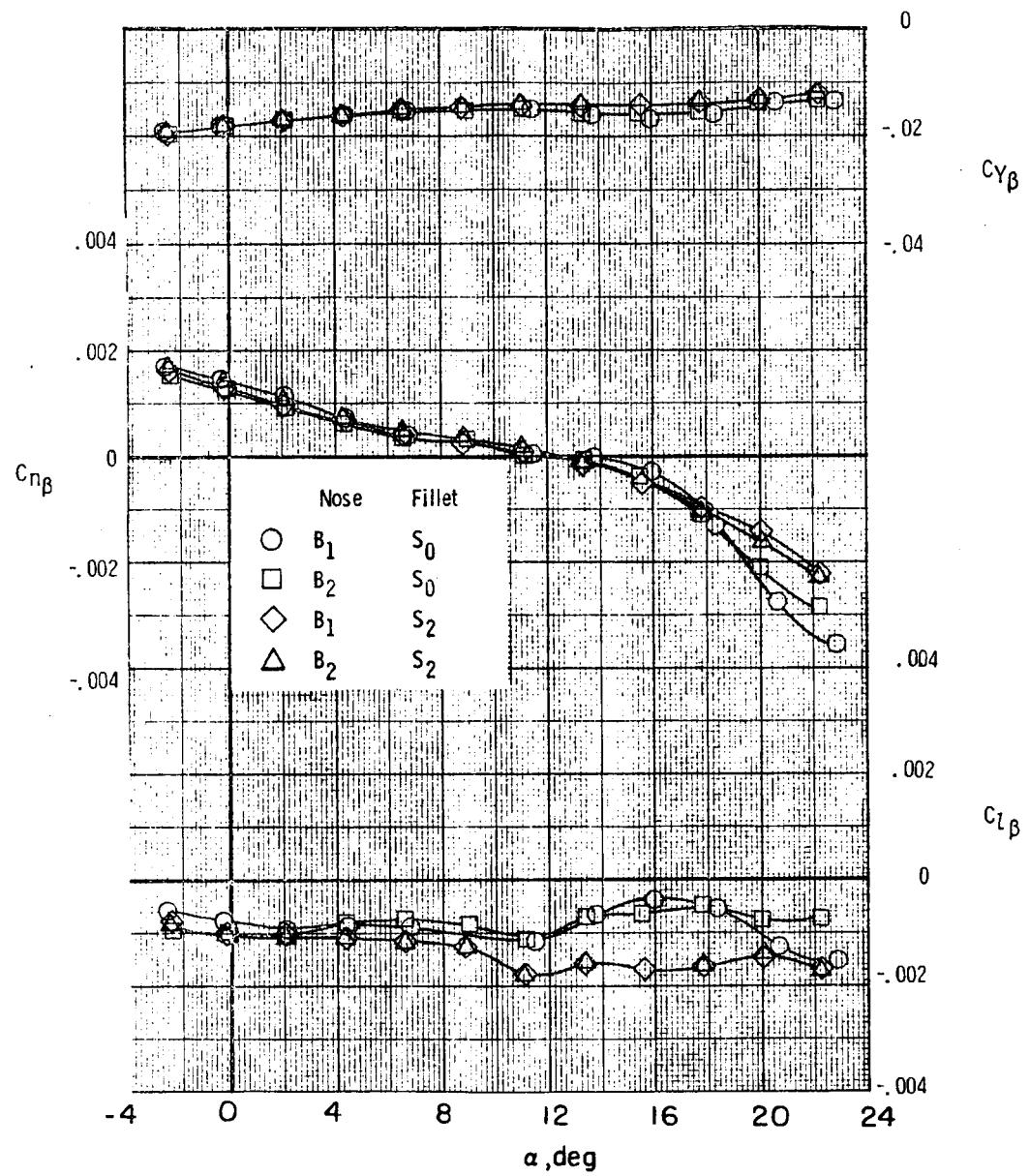
(c)  $M = 0.90$

Figure 13.- Continued.



(d)  $M = 0.98$

Figure 13. - Continued.



(e)  $M = 1.20$

Figure 13.- Concluded.

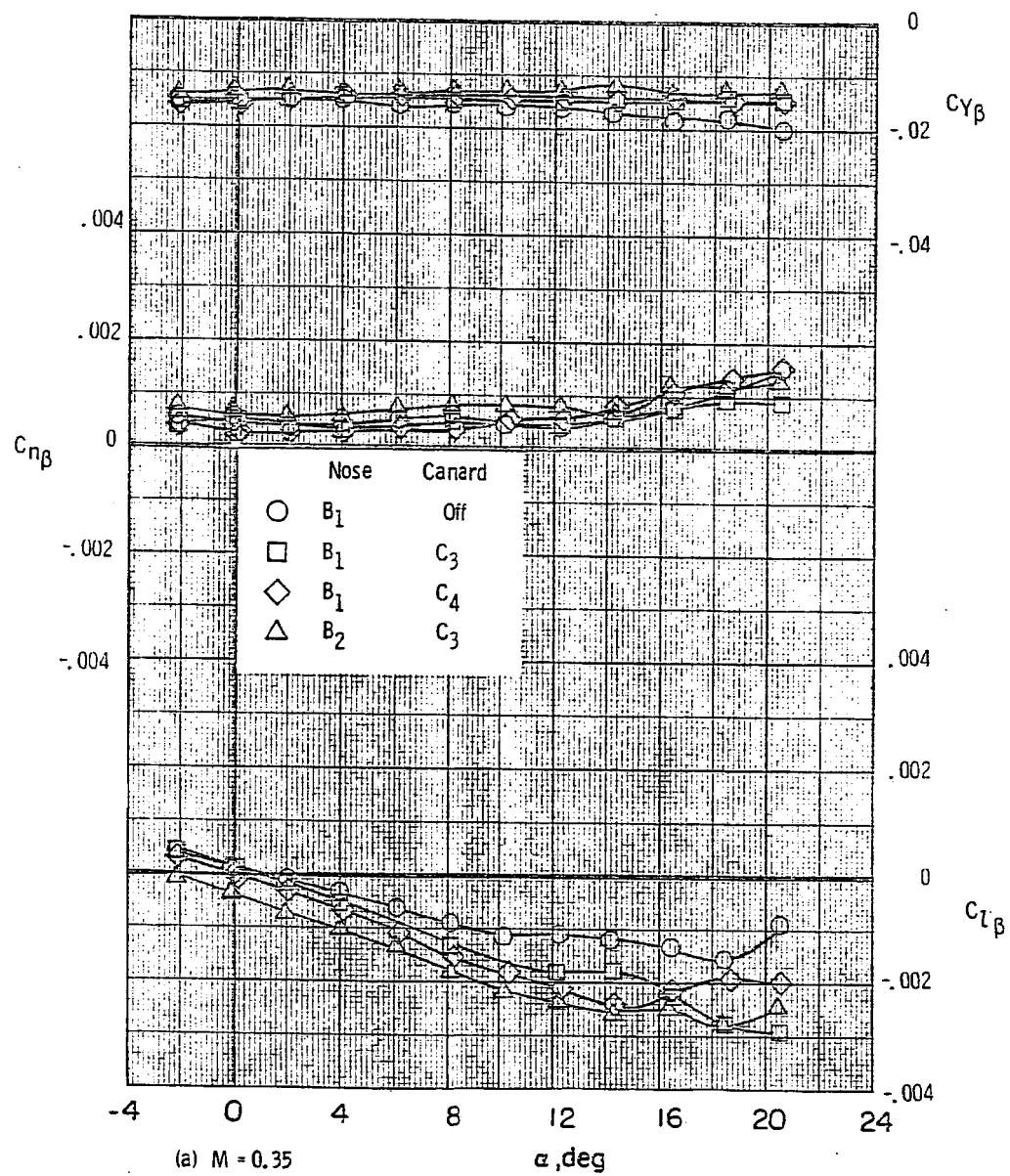
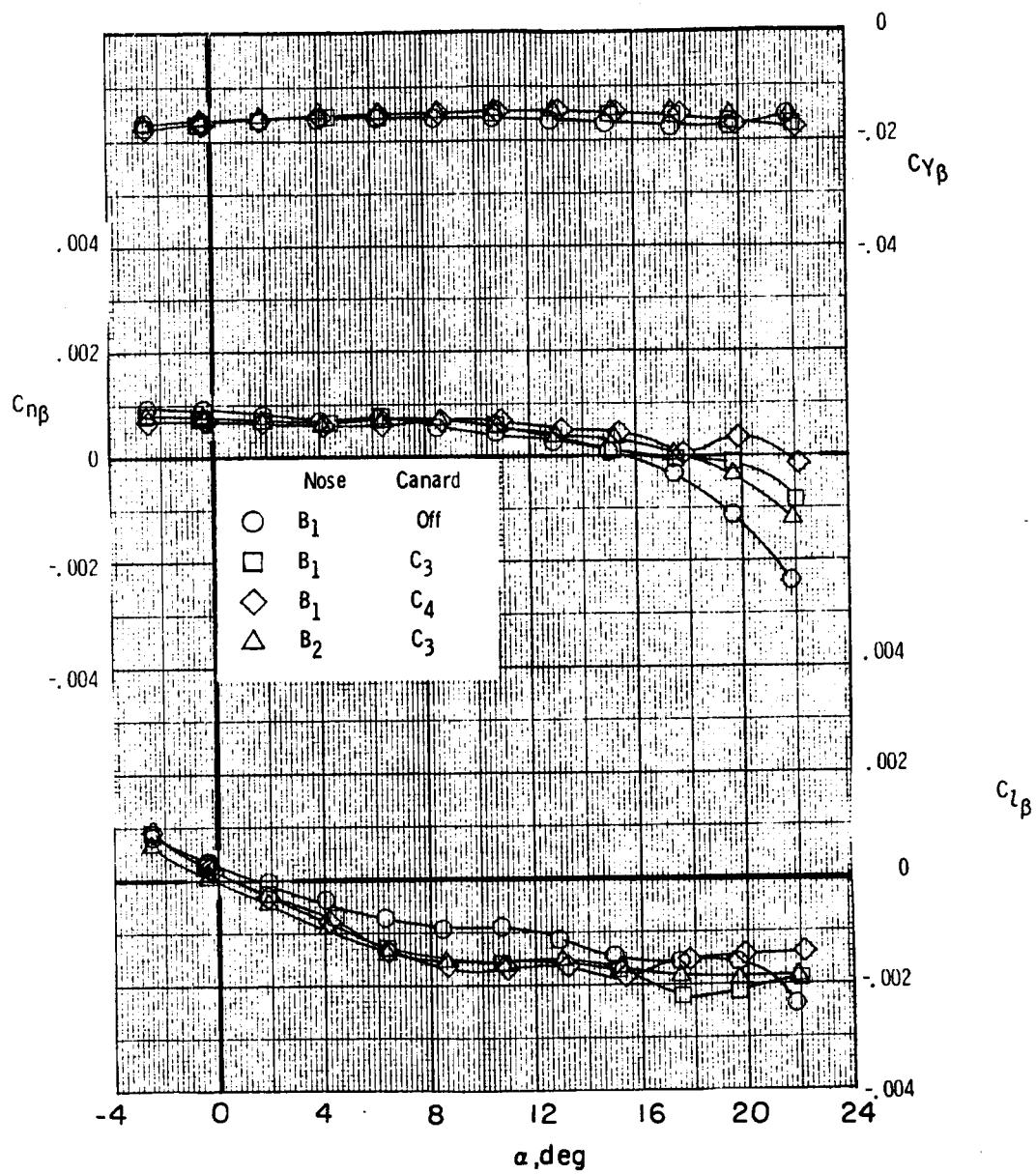


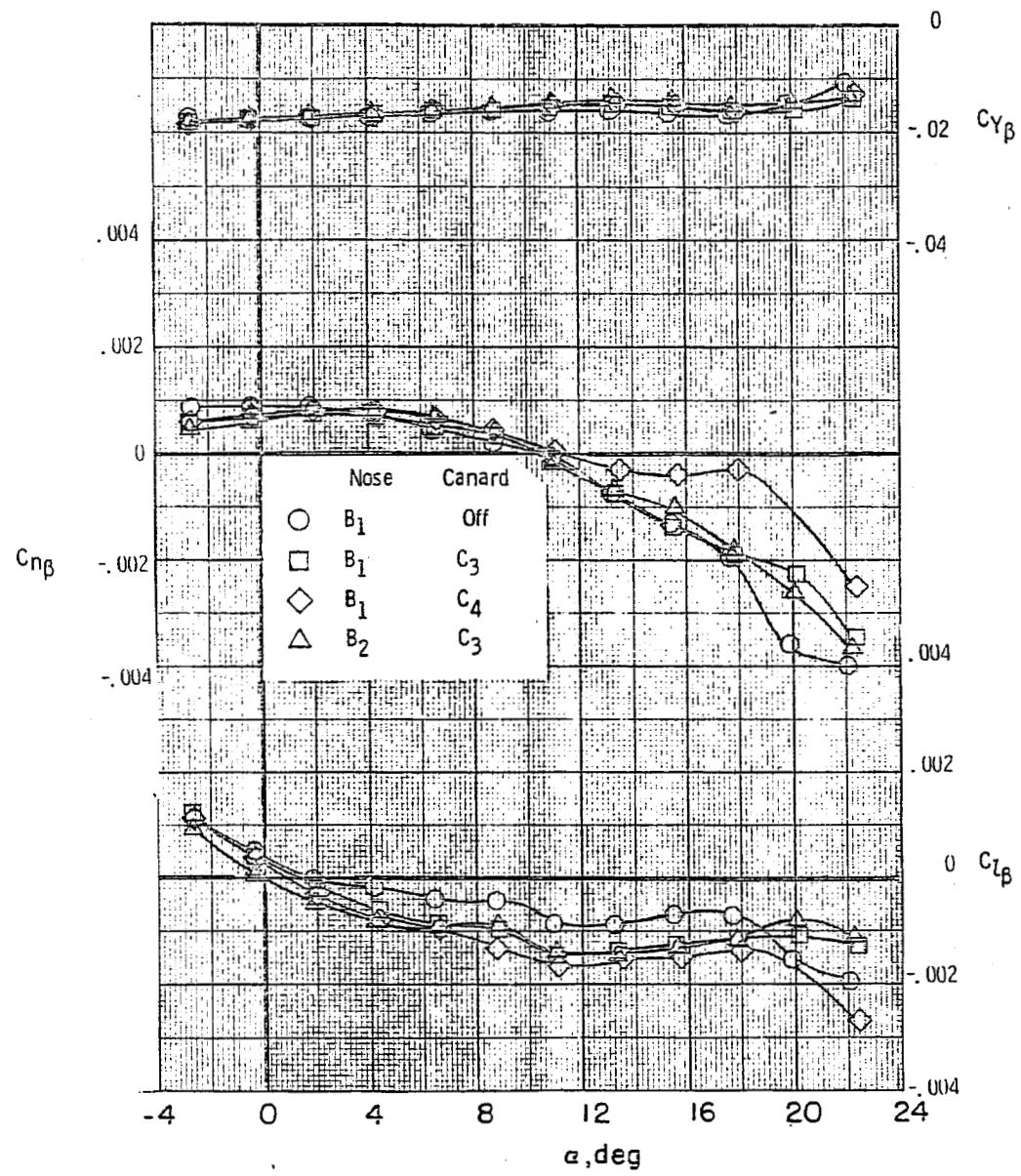
Figure 14. - Effects of fuselage forebody modification  $B_2$  and canards  $C_3$  and  $C_4$  on the lateral-directional aerodynamic characteristics for configuration  $B_1WVS_0EF$ .  $\delta_e = -10^\circ$ ;  $\delta_{BF} = -11.7^\circ$ ;  $\delta_{SB} = 0^\circ$ .



(b)  $M = 0.80$

Figure 14. - Continued.

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(c)  $M = 0.90$

Figure 14. - Continued.

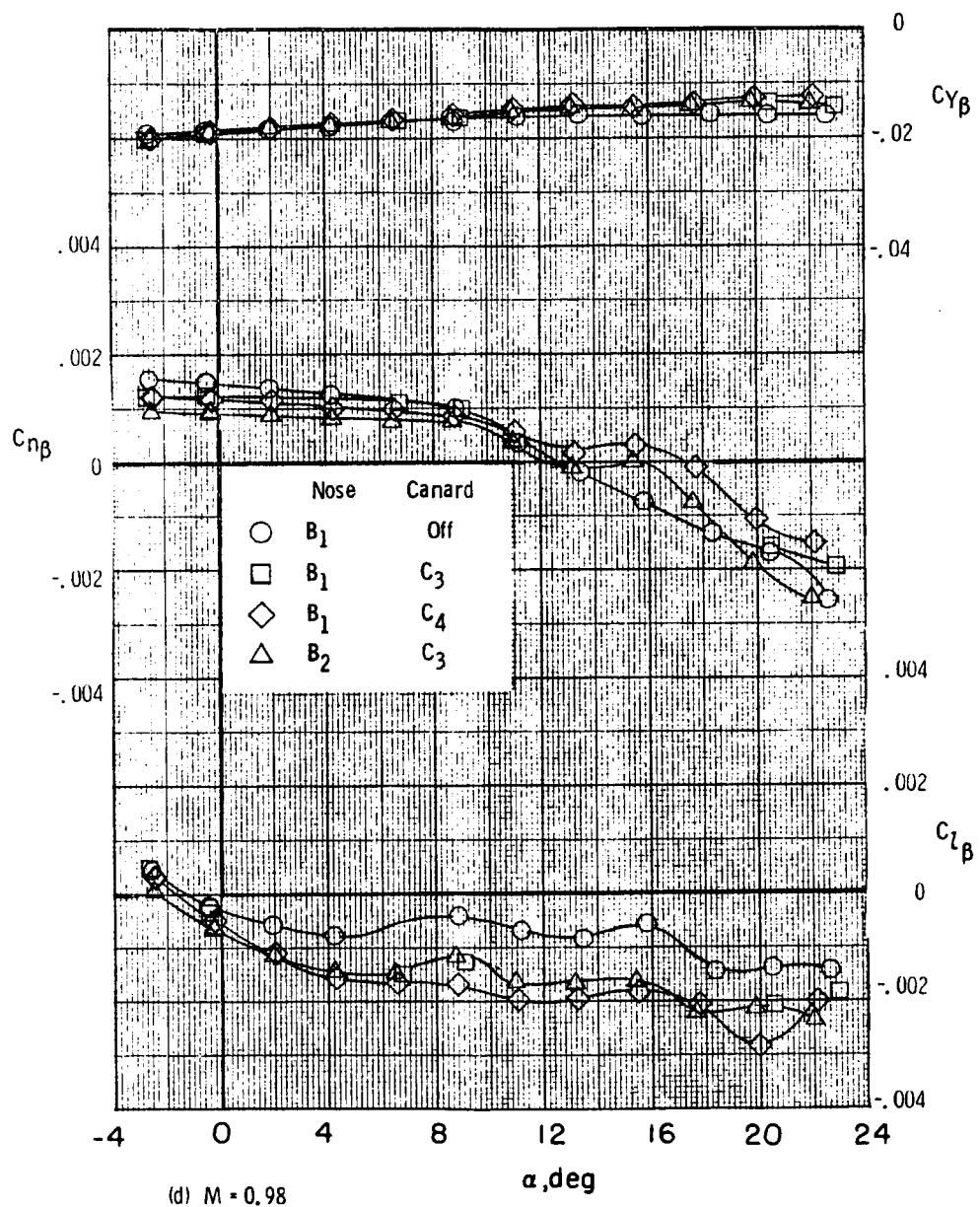


Figure 14. - Continued.

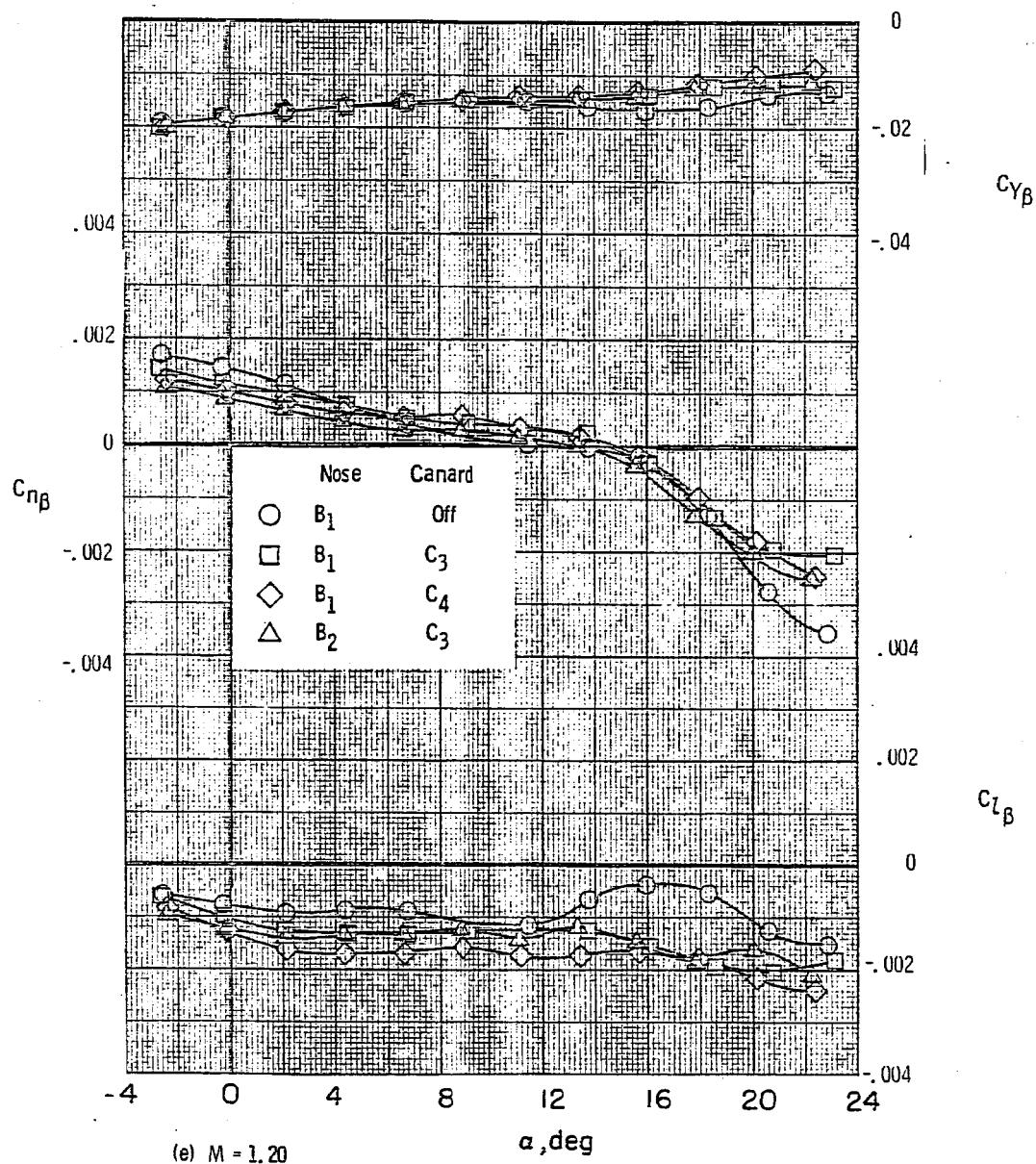


Figure 14. - Concluded.

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## APPENDIX

### Tabulated Data

The data presented herein are identified in table II (Data Set/Run Number Collation Summary) by configuration and run number. These data are also stored on tape in the Space Shuttle Data System (DATAMAN) and are identified by shuttle test number LA-51 and data set identifier letters PII. Access to the data may be obtained by writing to the following address:

Chrysler Corporation, Space Division  
Dept. 2910, P. O. Box 29200  
New Orleans, LA 70139

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TABLE II

## TEST 1 LaRC-8TP1-684 (LA51)

## DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 13 JUNE 1974

DATA SET IDENTIFIER	CONFIGURATION	SCHD. $\alpha$	PARAMETERS/VALUES 8E 8BF 8SB	NO. OF RUNS	TEST RUN NUMBERS			INDEPENDENT VARIABLE	
					.35	.80	.90	.98	1.20
R, PHV001	B1 F1M1	W1E1 S0V1	A 0 0 0 0	5	10	9	8	7	6
02			V -11.7		5	4	3	2	1
03			V -10		20	19	18	17	16
04			V 5		25	24	23	22	21
05			0 -20		15	14	13	12	11
06	C3		0 0		40	39	38	37	36
07			V -10		35	34	33	32	31
08			V 5		30	29	28	27	26
09	C4		0 0		85	84	83	82	81
10			V -10		90	89	88	87	86
11			V 5 -10		125	124	123	122	121
12		S1	0 0		135	134	133	132	131
13			V -10		140	139	138	137	136
14		S2	0		80	79	78	77	76
15			V -10		75	74	73	72	71
16		V	V V 5 -10	V	120	119	118	117	116
R SETS:									
BETA	CN	CA	CLM	CBL	CYN	CV	CL	CD	L/D
P SETS:									
BETA	0 (KPA)	CPL	CP2	CP3	CP4				
TYPE OF DATA	$\alpha$ OR $\beta$								
SCHEDULES:									

TYPE OF DATA  
 $\alpha$  OR  $\beta$   
 SCHEDULES:  
 IDVAR (1) IDVAR (2) NOV  
 IDVAR (1) IDVAR (2) NOV

COEFFICIENT SCHEDULES

 $\Delta\alpha = 2^\circ$

TABLE III. - CONCLUDED.

TEST: LaRC-8TPT-684 (LA51) DATE : 13 JUNE 1974

## DATA SET/RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCHED. PARAMETERS/VALUES				NO. MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)							
		$\alpha$	$\beta$	$\delta E$	$\delta BF$	$\delta SB$	.35	.80	.90	.98	1.20		
R,PHV017	B2 F1M1	W1E1S0 V1	A	0	0	-11.7	0	5	60	59	58	57	56
	18					-10		55	54	53	52	51	
	19					5		105	104	103	102	101	
	20					0	0	45	44	43	42	41	
	21					0	-10	50	49	48	47	46	
	22					5	-10	110	109	108	107	106	
	23					S2	0	0	65	64	63	62	61
	24						0	-10	70	69	68	67	66
	25						5	-10	115	114	113	112	111
	26						S0	0	130	129	128	127	126
	27							0	95	94	93	92	91
	28							-10	100	99	98	97	96
R SETS:													
P SETS:	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	MACH	ALPHA	10
BETA	Q (KPA)	CP1	CP2	CP3	CP4						MACH	ALPHA	6
TYPE OF DATA	$\alpha$ OR $\beta$	A:	$-2^\circ < \alpha < 20^\circ$ ; $\Delta\alpha = 2^\circ$				COEFFICIENT SCHEDULES				IDVAR (1)	IDVAR (2)	NOV
SCHEDULES:													

## PARAMETRIC DATA

136

LARC8TP-684 (LA-51) (B1F1M1) (W1E1SD) (V1)

(RHVW01)

## PARAMETRIC DATA

MACH	BETA	PARAMETRIC DATA			CD	L/D
		CLM	CBL	CYN		
.900	-.00481	-.21929	.07086	.05490	.00213	-.21617
.900	-.107	.00388	-.08179	.07221	.04056	-.00369
.900	2.131	.00656	.03701	.07201	.03475	.00113
.901	4.373	.00634	.15816	.07064	.02900	.00161
.899	6.632	.00205	.28402	.06848	.02088	.00164
.899	8.860	.00415	.40052	.07114	.01033	.00223
.900	11.097	.00335	.52663	.07499	.00784	.00297
.900	13.367	.00206	.67201	.07508	.03092	.00372
.900	15.632	-.00035	.81081	.07662	.04756	.00317
.899	17.884	-.00085	.93801	.07736	.05394	.00382
.900	20.114	.00230	1.55437	.08007	-.05343	.00487
.901	21.107	.00358	1.08786	.08353	-.03873	.00146
RUN NO. 8 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.900	-.00528	-.21914	.12103	.06772	.00223	.00243
.900	-.072	.00232	-.07423	.12183	.04623	.00227
.900	2.201	.00757	.06928	.12068	.02592	.00201
.900	4.510	.00689	.21439	.11797	.00752	.00204
.900	6.791	.00556	.35071	.11550	-.01950	.00161
.900	9.076	.00709	.49104	.11666	-.02984	.00263
.900	11.359	.00361	.63629	.12107	-.05303	.00225
.900	13.655	.00441	.77641	.12614	-.07241	.00241
.900	15.938	.00437	.91364	.12816	-.08962	.00237
.900	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.900	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.900	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.11666	-.02984	.00263
.980	11.359	.00361	.63629	.12107	-.05303	.00225
.980	13.655	.00441	.77641	.12614	-.07241	.00241
.979	15.938	.00437	.91364	.12816	-.08962	.00237
.979	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.982	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.980	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.11666	-.02984	.00263
.980	11.359	.00361	.63629	.12107	-.05303	.00225
.980	13.655	.00441	.77641	.12614	-.07241	.00241
.979	15.938	.00437	.91364	.12816	-.08962	.00237
.979	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.982	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.980	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.11666	-.02984	.00263
.980	11.359	.00361	.63629	.12107	-.05303	.00225
.980	13.655	.00441	.77641	.12614	-.07241	.00241
.979	15.938	.00437	.91364	.12816	-.08962	.00237
.979	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.982	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.980	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.11666	-.02984	.00263
.980	11.359	.00361	.63629	.12107	-.05303	.00225
.980	13.655	.00441	.77641	.12614	-.07241	.00241
.979	15.938	.00437	.91364	.12816	-.08962	.00237
.979	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.982	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.980	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.11666	-.02984	.00263
.980	11.359	.00361	.63629	.12107	-.05303	.00225
.980	13.655	.00441	.77641	.12614	-.07241	.00241
.979	15.938	.00437	.91364	.12816	-.08962	.00237
.979	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.982	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.980	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.11666	-.02984	.00263
.980	11.359	.00361	.63629	.12107	-.05303	.00225
.980	13.655	.00441	.77641	.12614	-.07241	.00241
.979	15.938	.00437	.91364	.12816	-.08962	.00237
.979	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.982	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.980	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.11666	-.02984	.00263
.980	11.359	.00361	.63629	.12107	-.05303	.00225
.980	13.655	.00441	.77641	.12614	-.07241	.00241
.979	15.938	.00437	.91364	.12816	-.08962	.00237
.979	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.982	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.980	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.11666	-.02984	.00263
.980	11.359	.00361	.63629	.12107	-.05303	.00225
.980	13.655	.00441	.77641	.12614	-.07241	.00241
.979	15.938	.00437	.91364	.12816	-.08962	.00237
.979	18.277	-.00342	1.07509	.13140	-.11300	-.00123
.982	20.569	-.00189	1.23153	.13639	-.13942	-.00243
.980	22.795	-.00597	1.31723	.13237	-.12252	-.00167
RUN NO. 7 / 9						
MACH	BETA	CN	CA	CLM	CBL	CYN
.980	-.367	-.00528	-.21914	.12103	.06772	.00223
.980	-.072	.00232	-.07423	.12183	.04623	.00227
.980	2.201	.00757	.06928	.12068	.02592	.00201
.980	4.510	.00689	.21439	.11797	.00752	.00204
.980	6.791	.00556	.35071	.11550	-.01950	.00161
.980	9.076	.00709	.49104	.1166		

## LA51 TABULATED SOURCE DATA

PAGE 3

LARC8TP1-684 (LA-51) (B1F1M1) (WE1SD) (V1)

(RHVN011)

## PARAMETRIC DATA

BETA = .000  
 ATLRON = .000  
 SPDRK = .000

RUN NO.	6 / 0	C <sub>N</sub>	CA	CLM	CBL	CYN	CY	CL	CD	L/D
MACH	ALPHA	BETA	-.19962	.13720	.06874	.00155	.00170	-.19374	.14538	-.133264
1.200	-2.382	-.00594	-.04800	.13714	.03452	.00148	.00163	-.00206	.04791	-.34928
1.201	-.036	.00050	-.04800	.13890	.00360	.00173	.00119	-.00303	.09113	.14260
1.200	2.271	.00431	.09601	.13971	-.02470	.00164	.00117	-.00297	.22737	.63415
1.200	4.593	.00423	.23932	.13877	-.01552	.00277	.00174	-.00336	.35491	.18219
1.200	6.905	.00353	.37424	.13820	.00177	.00083	.00142	-.00151	.47288	.21500
1.200	9.208	-.00030	.50119	.13636	-.05993	.00119	.00089	-.00059	.60735	.26525
1.200	11.549	-.00372	.64777	.13632	-.06111	.00141	.00189	-.00233	.74023	.32375
1.200	13.881	-.00456	.79628	.13671	-.10475	.00145	.00145	-.00085	.84778	.24642
1.200	16.195	-.00247	.92307	.13861	-.11868	.00146	.00240	-.00175	.39055	.217071
1.199	18.478	-.00169	1.04126	.13983	-.12045	.00228	.00215	-.00218	.94325	.46264
1.199	20.726	-.00335	1.13817	.13746	-.12357	-.00037	.00189	-.00078	1.01586	.53136
1.199	22.976	-.00169	1.24113	.13559	-.12563	.00092	.00372	-.00355	1.08974	.60950

LARC8TP1-684 (LA-51) (B1F1M1) (WE1SD) (V1)

(RHVN02)

## PARAMETRIC DATA

BETA = .000  
 ATLRON = .000  
 SPDRK = .000

RUN NO.	5 / 0	C <sub>N</sub>	CA	CLM	CBL	CYN	CY	CL	CD	L/D
MACH	ALPHA	BETA	-.16819	.03369	.03233	.00175	.00071	.00616	-.16615	.03970
.349	-2.061	-.00341	-.07956	.05226	.03264	.00226	-.00004	.00149	-.07954	.05529
.349	-.019	-.00071	.01112	.05333	.03237	.00251	-.00019	-.00189	.00922	-.143660
.349	2.015	.00103	.01093	.04873	.03183	.00248	-.00022	-.00074	.10610	.05639
.350	4.063	-.00048	.20184	.04142	.03079	.00236	-.00029	-.00216	.19541	.17616
.351	6.097	-.00090	.30213	.02376	.03125	.00284	-.00042	.00467	.29487	.07227
.350	8.146	-.00250	.40587	.01401	.03286	.00264	-.00011	.00295	.39624	.08971
.350	10.216	-.00142	.51967	.00807	.02533	.00179	-.00086	.00295	.50163	.11015
.350	12.250	-.00168	.64787	.00635	.01437	.00321	.00153	.00324	.62615	.15649
.350	14.328	-.00237	.77092	.00404	.01475	.00441	.00131	.00131	.73825	.22210
.349	16.384	-.00098	.89634	-.00029	-.00352	.00334	.00168	.00168	.85046	.21312
.349	10.431	-.00107	1.03000	-.001510	-.01179	.00203	-.00311	.00673	.35572	.271769

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## LA51 TABULATED SOURCE DATA

LARC8TP7-684 (LA-51) (B1FM1) (WIE1SD) (V1)

(RHVW92)

## PARAMETRIC DATA

BETA =	.000	ELEVTR =	.000
AIRRON =	.000	BDFLAP =	-11.700
SPDBRK =	.000		

RUN NO. 4/0

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.801	-2.339	-.00350	-.12057	.05860	.05498	.00197	.00079	.00100	-.21799	.06755	-3.22710
.801	-1.132	.00360	-.11069	.06003	.05218	.00216	.00079	-.00287	-.11056	.06029	-1.83375
.801	2.059	.00539	.00119	.05813	.05071	.00224	.00083	-.00389	-.00090	.05814	-.01547
.801	4.267	.00486	.11930	.05353	.04595	.00229	.00075	-.00351	.11498	.06226	1.84672
.801	6.478	.00317	.23990	.05031	.03941	.00343	.00176	-.00375	.23269	.07705	3.01986
.801	8.705	.00150	.34665	.05151	.03428	.00350	.00162	-.00268	.33487	.10338	3.23932
.801	10.872	-.00087	.45922	.05535	.02671	.00278	.00176	-.00153	.44053	.14097	3.12508
.801	13.097	-.00142	.58679	.05460	.02200	.00298	.00181	-.00127	.55915	.18614	3.00398
.801	15.353	.00184	.73289	.05681	.00565	.00567	.00160	-.00287	.69170	.24883	2.77984
.801	17.569	.00172	.86106	.05704	.00443	.00172	-.00295	.80368	.31430	.2.55705	
.801	19.789	-.00321	.97593	.05796	.00339	.00305	-.00213	.89668	.38495	2.33432	
.801	21.917	-.00010	1.54682	.06147	.01893	-.00133	.00405	-.00457	.94821	.44777	2.11765

RUN NO. 3/0

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.901	-2.396	-.00210	-.24130	.07362	.07261	.00216	.00156	-.00078	-.23801	.08364	-2.84563
.901	-1.133	.00947	-.10537	.07419	.05863	.00280	.00138	-.00061	-.00519	.07443	-1.41328
.901	2.119	.00930	.01501	.07437	.05326	.00113	.00066	-.00051	.01225	.07488	.16359
.901	4.335	.00917	.13307	.07290	.04803	.00156	.00124	-.00053	.12718	.08275	1.53692
.901	6.577	.00544	.26006	.07185	.04018	.00146	.00112	-.00051	.25012	.10117	2.47235
.901	8.815	.00519	.37638	.07465	.03025	.00168	.00060	-.00050	.36049	.13145	2.74239
.901	11.083	.00676	.50776	.07948	.01112	.00282	.00119	-.00089	.48351	.17560	2.75159
.901	13.338	.00555	.64923	.08115	-.01035	.00332	.00452	-.00079	.61299	.22874	2.67991
.901	15.384	.00592	.78294	.08304	-.02410	.00325	.00375	-.00073	.73184	.29032	2.52080
.901	17.847	.00290	.90581	.08427	-.03038	.00166	.00368	-.00056	.83643	.35772	2.33823
.901	20.156	.00554	1.00793	.08799	-.02701	.00059	.00541	-.00091	.91663	.42831	2.14011
.901	22.203	1.05888	.08823	.01226	-.00099	.00614	-.01068	.94702	.48183	.1.96546	

DYNAMIC DATA

BETA =	.000	ELEVTR =	.000
ALTRON =	.000	BRFLAP =	-11.730
SPRBRK =	.000		

ROW NO.	ALPHA	BETA	CHI
10001	.934	-.67433	.23155
	.932	-.67433	-.01944
	.930	.67433	.05468
	.928	.67433	-.03855
	.926	.67433	.32820
	.925	.67433	-.32820
	.920	.67433	.27097
	.918	.67433	-.27097
	.916	.67433	.00470
	.915	.67433	-.00470
	.916	.67433	.1.04156
	.915	.67433	-.1.04156
	.905	.67433	.00303
	.905	.67433	-.00303
	.905	.67433	.1.19761
	.905	.67433	-.1.19761
	.905	.67433	.1.22435
	.905	.67433	-.1.22435

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P-VALUE	BETA		CN	CA	CLM	CDL	CYN	CY	CL	CC	L/D
	ALPHACH	ALPHAB									
1.4000	-2.416	-.00615	-.21101	.14034	.07868	.00136	.00202	.00007	-.20191	.14911	-1.37417
1.1.201	-.099	.00246	-.06320	.14034	.04599	.00134	.00187	-.00309	-.06295	.14015	-.46822
1.1.201	2.222	.01751	.08036	.13947	.01648	.00167	.00142	-.00453	.07450	.14241	.52593
4.350	6.688	.00079	.22530	.13856	-.10160	.00160	.00139	-.00422	.21360	.15599	1.36933
1.1.200	9.162	.00745	.35747	.13657	-.02900	.00277	.00195	-.00512	.33651	.17846	1.69687
1.1.200	11.517	-.00063	.01146	.40451	.13491	-.04419	.00068	-.00156	-.00252	.21033	2.17206
1.1.200	13.845	.00072	.02053	.13547	-.08452	.00114	.00180	-.00182	.50083	.25023	2.28028
1.1.200	16.160	.00183	.77536	.13659	-.08662	.00132	.00227	-.00260	.72016	.38000	2.26474
1.1.200	16.483	-.00129	1.02068	.13654	-.101041	.00128	.00222	-.00328	.82010	.38003	2.15634
1.1.200	20.666	-.01268	1.11362	.13726	-.11383	-.00042	.00246	-.00229	.92422	.45502	2.03072
1.1.200	22.959	.00001	1.21586	.14450	-.19252	.00054	.00323	-.00370	.99351	.52145	1.90527
										.00689	.58803

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## LA31 TABULATED SOURCE DATA

LARC8PT-684 (LA-51) (B1F1M1) (WE1SD) (V1)

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(RHV003)

## PARAMETRIC DATA

BETA = .000  
AILRON = .000  
SPDBRK = .000

RUN NO. 20/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.218	-.00320	-.35981	.05643	.12015	.00041	-.00020	.00693	-.35736	.007032	-.5.08207
.350	-.167	-.00160	-.27195	.05914	.11759	.00063	-.00004	.00331	-.27178	.05993	-.4.53466
.350	.061	-.00170	-.25641	.05913	.11709	.00064	-.00027	.00377	-.25647	.05886	-.4.35745
.350	2.063	-.00087	-.17028	.05875	.11671	.00090	-.00079	.00268	-.17228	.03258	-.3.27647
.350	3.894	-.00147	-.08639	.05520	.11909	.00079	-.00074	.00385	-.08994	.00920	-.1.82799
.350	6.002	-.00211	.01374	.04762	.12007	.00087	-.00092	.00538	.00868	.04879	.17794
.350	8.048	-.00264	.10706	.03630	.12046	.00095	-.00113	.00673	.10664	.05291	1.90197
.350	10.027	-.00334	.20717	.02997	.12139	.00104	-.00116	.00702	.19014	.06361	3.13049
.349	12.120	-.00393	.32194	.01929	.11746	.00039	-.00046	.00581	.31092	.08348	3.63754
.349	14.044	-.00294	.43718	.01412	.10759	.00126	-.00108	.00494	.42068	.11979	3.31165
.350	16.491	-.00378	.58085	.01017	.09693	.00241	-.00089	.00702	.55410	.17453	3.17478
.349	18.518	-.00163	.70867	.00279	.08768	.00274	-.00048	.00342	.67109	.22773	2.94690
.349	20.438	-.00140	.84019	-.00379	.07770	.00124	-.00106	.00185	.78063	.26964	2.72095

RUN NO. 19/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.801	-2.581	-.00723	-.40573	.06902	.14692	.00120	.00035	.00354	-.40221	.018722	-.4.61160
.801	-.358	-.00315	-.27707	.07047	.13706	.00101	.00016	.00154	-.27661	.017225	-.3.28259
.801	1.918	.00246	-.16018	.06877	.13266	.00100	.00011	.00147	-.16229	.063337	-.2.56112
.800	3.949	.00178	-.05251	.06426	.12929	.00115	.00013	.00112	-.05681	.060505	-.93901
.800	6.184	.00056	.06956	.05822	.12424	.00034	.00046	.00084	.06289	.05537	.96199
.800	8.385	-.00194	.18937	.05641	.11820	.00090	-.00105	.00103	.17932	.00345	2.14872
.801	10.677	-.00354	.30745	.05902	.11717	.00160	.00125	.00053	.29119	.11497	2.33289
.801	12.812	-.00555	.40950	.06058	.12405	.00156	.00078	.00222	.37710	.14788	2.54996
.801	14.888	-.00467	.51019	.06323	.12096	.00150	.00050	.00217	.47682	.19219	2.48092
.800	17.349	-.00215	.64430	.06313	.11960	.00370	.00081	.00030	.59816	.23239	2.36210
.800	19.458	-.00199	.76666	.06220	.11832	.00419	.00163	-.00071	.70215	.31473	2.23591
.801	21.735	-.00249	.89340	.06297	.11399	.00083	-.00181	.00286	.80556	.36933	2.57164

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## LASI TABULATED SOURCE DATA

LARCOPT-684 (LA-31) (B1F1M1) (WIE190) (V1)

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(RHV003)

## PARAMETRIC DATA

BETA = .000 ELEVTR = -10.000  
 ALFRON = .000 BDFLAP = -11.700  
 SPDBRK = .000

RUN NO. 167 Q

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.699	-2.667	-.05546	-.41028	.09055	.16884	.00123	.00052	-.41361	.10992	-3.76284	
.695	-2.382	-.01246	-.22515	.09170	.15337	.00156	.00049	-.27454	.09354	-2.03521	
.900	1.110	.00515	-.13898	.00027	.13892	.00162	.00066	-.00254	.14176	.08583	-1.65151
.699	3.669	.00566	-.00091	.08675	.12501	.00119	.00018	-.00327	.01592	.08286	-.18544
.725	6.717	.00227	-.13293	.08564	.11225	.00177	.00129	-.00257	.12293	.09776	1.25745
.699	8.556	.00173	-.26894	.08363	.10442	.00125	.00164	-.00212	.21361	.12123	2.05634
.900	10.928	-.00192	.00445	.08483	.08217	.00195	.00212	-.00148	.31103	.15997	2.56192
.911	13.192	-.00082	.00032	.08607	.06835	.00213	.00213	-.00233	.43750	.20173	2.41633
.699	15.740	-.00192	.64116	.08658	.00122	.00170	.00188	-.00120	.59541	.25310	2.35243
.900	17.559	-.00300	.75970	.08622	.05709	.00129	.00236	-.00155	.69837	.31142	2.24221
.899	19.746	.00192	.08209	.08837	.06258	-.00122	.00437	-.00546	.78154	.37444	2.03726
.899	21.559	-.00036	.91596	.09346	.15453	-.00136	.00495	-.00541	.81449	.42933	1.89710

RUN NO. 177 H

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.981	-2.506	-.00552	-.00533	.14080	.10370	.00103	.00095	-.00149	.15865	.2.51021	
.981	-.466	.00318	-.22518	.13839	.15999	.00195	.00112	-.00260	.14063	-1.08335	
.902	1.275	.00724	-.11241	.13650	.13653	.00144	.00105	-.00440	.11751	.13272	-.28540
.901	4.119	.00333	.03015	.13429	.11707	.00102	.00140	-.00396	.02043	.13611	-.15003
.981	6.471	.00554	.18272	.13274	.09389	.00077	.00208	-.00484	.16630	.15249	1.09253
.981	8.720	.00492	.32358	.13295	.07674	.00003	.00222	-.00173	.29968	.18047	1.66057
.981	11.047	.00277	.40301	.13445	.04152	.00016	.00292	-.00459	.44830	.22450	1.59805
.900	13.395	.03498	.62561	.13680	.03643	.00124	.00320	-.00591	.57690	.27801	2.07500
.921	15.765	.00257	.76720	.13655	.01904	.00117	.00315	-.00478	.70125	.33935	2.06337
.979	10.248	.00069	.91948	.13496	.01106	-.00116	.00436	-.00540	.83110	.41571	1.99823
.900	20.501	-.00192	1.07174	.13309	-.00204	-.00421	.00320	-.00284	.95725	.50000	1.94449
.900	22.548	-.01326	1.16398	.12952	-.01207	-.00498	.00129	-.00466	1.02534	.56596	1.01169

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## LAST TABULATED SOURCE DATA

PAGE 8

LARC67PT-6A4 (LA-51) (B1F1M1) (W1E1S0) (W1)

(RHWD33)

## PARAMETRIC DATA

BETA = .000  
AILRON = .000  
SPDURK = .000

ELEVTR = -10.000  
BDFLAP = -11.700

RUN NO. 16/0

MACY	ALPHA	BETA	CN	CA	CLW	CBL	CYH	CY	CL	CD	L/D
1.269	-2.340	-.00669	.53029	.16106	.15649	.00095	.00149	.00088	-.32250	.17614	-1.83089
1.250	-2.352	.50154	.17922	.16051	.11651	.00117	.00152	-.00254	-.17820	.16164	-1.10250
1.200	2.952	.50675	.03015	.15721	.08338	.00121	.00116	-.00194	-.03576	.15605	-.22919
1.200	4.271	.50556	.10637	.15452	.06237	.00067	.00108	-.00339	.09456	.16201	.58359
1.200	6.322	.50549	.24804	.15145	.04038	.00127	.00163	-.00397	.22890	.17907	1.27226
1.200	8.237	.50225	.38963	.14726	.01948	.00222	.00139	-.00247	.36212	.20574	1.76005
1.200	11.451	.500093	.53963	.14493	.00030	.00034	.00153	-.00139	.50136	.24913	2.00241
1.199	13.710	.00078	.08709	.14531	-.02016	.00397	.00210	-.00232	.66705	.30755	2.07200
1.250	15.312	-.00507	.79917	.14177	-.03409	-.00029	.00113	-.00075	.73730	.35416	2.06208
1.200	18.165	-.00267	.91945	.13967	-.04216	-.00021	.00188	-.00136	.83019	.41936	1.97942
1.199	20.642	-.00212	1.32464	.13585	-.04379	-.00175	.00198	-.00129	.91642	.46656	1.86348
1.200	22.715	.00335	1.42461	.13319	-.03866	.00339	.00366	-.00427	.98994	.55712	1.76912

Lanc67PT-6A4 (A-82) (B1F1M1) (W1E1S0) (W1)

## PARAMETRIC DATA

BETA = .000  
AILRON = .000  
SPDURK = .000

ELEVTR = -10.000  
BDFLAP = -11.700

RUN NO. 25/0

MACY	ALPHA	CN	CA	CLW	CBL	CYH	CY	CL	CD	L/D	
.350	-2.101	.502946	-.15246	.00341	.11636	.00222	.00256	-.06990	-.35286	.06631	-5.28199
.350	-1.135	5.01209	-.25561	.05937	.11494	.00139	.00207	-.07152	-.26447	.05699	-4.65792
.350	1.979	5.02280	-.17224	.05653	.11732	.00046	.00098	-.07418	-.17459	.05953	-3.45721
.350	4.965	5.02167	-.07152	.05312	.11656	-.00083	.00140	-.07209	-.07311	.04791	-1.55773
.349	6.181	5.00697	.02515	.04558	.11765	-.00221	.00156	-.07559	.02109	.08013	.43813
.350	6.186	4.98336	.11339	.03635	.11846	-.00349	.00191	-.07229	.11201	.05283	2.12025
.350	10.270	4.93465	.21854	.02536	.11828	-.00460	.00206	-.07362	.21051	.06392	3.29346
.349	12.354	4.91932	.35911	.01500	.11354	-.00500	.00235	-.07496	.32005	.08120	3.76190
.349	14.312	4.88097	.45156	.01333	.10338	-.00458	.00391	-.07913	.43205	.12254	3.48687
.349	16.377	4.83464	.57663	.00693	.09648	-.00397	.00458	-.08313	.55127	.16325	3.25704
.346	16.476	4.78113	.68406	.01043	.08871	-.00467	.00549	-.08361	.65844	.21937	2.93882
.348	20.538	4.71900	.83413	-.00602	.07934	-.00233	.00315	-.09351	.78273	.28837	2.71436

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## LAS1 TABULATED SOURCE DATA

LARCOTPT-604 (LA-51) (B1F1M1) (WIE130) (V1)

(RHV004)

## PARAMETRIC DATA

	BETA	0.000	ELEVTR	-10.000
ATLROW	0.000	0.000	BOFLAP	-11.700
SPDBRK	0.000			

RUN NO. 24/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.801	-2.522	5.13965	-.40373	.06663	.14290	.00331	.00494	-.00454	-.40041	.08433	-4.74823
.800	-.342	5.14743	-.28181	.06890	.13352	.00273	.00468	-.08591	-.28139	.07058	-3.98698
.800	1.848	5.14716	-.16797	.06813	.12906	.00176	.00402	-.08635	-.17007	.06258	-2.71774
.800	4.097	5.13505	-.05054	.06357	.12743	-.00182	.00347	-.08487	-.05495	.05979	-.91896
.800	6.331	5.11362	.07666	.05662	.12286	-.00338	.00404	-.08392	.06995	.06473	1.08168
.799	8.522	5.08726	.19912	.05390	.11555	-.00369	.00367	-.08295	.16894	.08282	2.28139
.800	10.767	5.05196	.30661	.05619	.11726	-.00299	.00339	-.08154	.25072	.11248	2.58461
.800	12.931	5.01586	.40840	.05942	.11893	-.00420	.00196	-.08196	.38475	.14931	2.57692
.800	15.040	4.97695	.51351	.06065	.12068	-.00442	.00175	-.08426	.48018	.19183	2.50317
.800	17.465	4.92665	.64548	.05698	.11768	-.00400	.00160	-.08827	.59986	.24998	2.39226
.800	19.752	4.86554	.79505	.05927	.10871	-.00353	.00398	-.08732	.72959	.32070	2.27496
.800	21.825	4.79138	.86448	.05622	.12794	-.01058	-.00871	-.07714	.78161	.37359	2.09216

RUN NO. 23/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.598	5.17136	-.41832	.08806	.16195	.01691	.01487	-.09017	-.41390	.10693	-3.87083
.901	-.400	5.18226	-.27870	.09067	.14708	.01486	.01486	-.09285	-.27806	.09261	-3.07222
.901	1.872	5.18290	-.13737	.08982	.13180	.00143	.00448	-.09368	-.16123	.08529	-1.64416
.899	4.227	5.17251	.00463	.08559	.11825	.00017	.00425	-.09466	-.00170	.09700	-.01978
.899	6.510	5.14489	.14410	.08123	.10781	-.00134	.00332	-.08946	.13396	.09704	1.38039
.899	8.875	5.11437	.27239	.08193	.10035	-.00201	.00244	-.08705	.25649	.12298	2.08566
.900	10.980	5.06132	.40261	.08297	.08373	-.00359	.00165	-.08598	.37944	.15814	2.39935
.900	13.323	5.04206	.53185	.08269	.06615	-.00284	.00180	-.08454	.49840	.20303	2.45322
.900	15.504	5.00124	.64320	.08152	.06051	-.00184	-.00485	-.08503	.59800	.25049	2.30738
.899	17.786	4.95029	.76394	.08074	.05757	-.00331	-.00748	-.08610	.70276	.31023	2.26527
.899	20.010	4.86392	.85569	.08013	.07315	-.01330	-.00778	-.07803	.77493	.37271	2.07921
.899	22.157	4.77795	.91918	.09190	.11113	-.01272	-.01421	-.05895	.81665	.43177	1.89138

## LAST TABULATED SOURCE DATA

LARC/CPT-684 (LA-51) (B1F1M1) (WIE:SA) (V1)

PAGE 30

(HW0054)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 ALTRON = .00000 BDFLAP = -11.700  
 SPDRK = .000

RUN NO. 22/0

WACH	BET <sub>A</sub>	CN	CA	CLW	CL	CYN	CV	CD	L/D
.361	5.19677	.4.1362	.14101	.17547	.60419	.00575	-.16537	.15973	-2.56561
.980	5.20353	.26127	.13898	.15269	.00577	.00857	-.15245	.14550	-1.89253
.930	5.1574	.21502	.15666	.13273	.00159	.00797	-.17155	.13521	-1.91232
.985	5.18777	.03657	.15324	.11335	.00505	.00765	-.09403	.13361	-1.9096
.980	5.15986	.23945	.17056	.08757	.02384	.00704	-.05287	.16053	1.35315
.985	5.1456	.32944	.13250	.07570	.00224	.00715	-.09550	.18197	1.57568
.979	5.11293	.00691	.49858	.13233	.04662	.00547	.00455	.08746	.22749
.979	13.565	.5.3722	.63379	.17220	.03245	.00207	-.06951	.55510	.27716
.979	5.16775	.77252	.12513	.02037	.00164	.00055	-.08643	.70790	.33517
.979	5.15.847	.4.52244	.95993	.12897	.00265	.00226	-.01226	.84820	.41945
.979	5.16.943	.4.81334	.1.03382	.12951	-.00647	-.01255	-.00340	.02116	.38492
.979	25.147	4.79461	1.15769	.12917	.00162	-.01135	-.01137	.1.01812	.56551

RUN NO. 21/0

WACH	BET <sub>A</sub>	CN	CA	CLW	CL	CYN	CV	CD	L/D
1.15	5.22781	.33053	.16989	.14750	.00221	.01515	-.12161	.17551	-1.0265
1.200	5.23005	.18035	.16033	.11785	.00235	.00534	-.05009	.16110	-1.15724
1.200	2.110	.5.22217	.03513	.15956	.00725	.00935	-.52570	.1.2913	
1.200	4.486	.5.19536	.11159	.15305	.00745	.00753	-.52575	.1.3551	
1.200	5.059	.5.17275	.25725	.15046	.03295	.00372	-.05353	.68795	
1.200	9.451	.5.13702	.41351	.14812	.15.21	.00304	-.00357	.1.31763	
1.200	11.435	.5.39049	.52955	.14523	.00277	.00500	-.00156	.2.1432	
1.200	13.778	.5.06674	.67519	.13558	.00577	.00193	-.00193	.1.79213	
1.200	15.032	.5.01951	.65310	.13066	.00261	.00226	-.01002	.2.0504	
1.200	14.435	4.95929	.92811	.13075	-.05160	-.00236	-.01050	.1.9211	
1.200	21.754	4.07914	1.03298	.13554	-.01685	-.00333	-.00112	.1.40711	
1.200	22.375	4.81211	1.13146	.12917	.00563	-.01135	-.01137	.1.75257	

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LARC8TP1-684 (LA-51) (B1F1M1) (W1E1S0) (V1)

(RHV005)

## PARAMETRIC DATA

BETA	=	.0000	ELEVTR =	-20.000
AILRDN	=	.0000	BDFLAP =	-11.700
SPDBRK	=	.0000		

RUN NO. 15/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.161	-.00505	-.50749	.07083	.16340	-.00228	.00923	-.50412	.09908	-.513976	
.350	-.137	-.00375	-.41512	.08261	.16085	-.00213	.00949	-.41492	.08361	-4.96272	
.350	1.907	-.00265	-.32566	.08312	.18244	-.00233	.00930	-.322024	.060505	-4.54663	
.350	3.941	-.00278	-.23468	.08061	.18314	-.00234	.00939	-.239666	.05021	-3.72780	
.351	5.994	-.00500	-.14718	.07449	.16597	-.00280	.00918	-.15415	.05011	-2.62554	
.350	8.028	-.00434	-.05919	.06487	.19053	-.00217	.00916	-.06767	.05597	-1.20915	
.350	10.079	-.00532	.02010	.05456	.19830	-.00230	.00913	-.10222	.05733	.17634	
.350	12.141	-.00423	.12770	.04478	.19533	-.00224	.00905	-.11543	.07064	.63409	
.351	14.193	-.00344	.23513	.03842	.19490	-.00184	.00920	-.01480	.09490	2.30272	
.350	16.237	-.00377	.35113	.13495	.18899	-.00172	.00915	-.00634	.32736	.13172	
.351	18.287	-.00390	.47769	.16265	.00259	.00117	.00700	-.44659	.17673	2.51624	
.350	20.360	-.00347	.61411	.02143	.17210	-.00249	.00917	-.00467	.56829	.23375	

RUN NO. 14/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.725	-.01006	-.53136	.10132	.20144	.00050	.00057	-.52594	.12647	-4.15872	
.800	-.511	-.00156	-.39943	.10112	.18110	.00049	.00062	-.39852	.15468	-3.03694	
.800	1.685	.00200	-.27802	.04955	.17346	.00124	.00051	-.28170	.09229	-3.11988	
.801	3.920	.00112	-.15495	.09289	.17509	.00112	.00043	-.16145	.08208	-1.96080	
.800	6.143	-.00320	-.02855	.06224	.16526	.00059	.00074	-.05125	.08069	-.48344	
.800	8.379	-.00345	.10033	.07810	.11511	-.00142	.00042	-.09579	.09305	1.15046	
.800	10.630	-.00416	.24234	.07550	.14511	-.00110	.00154	-.00077	.22422	1.66537	
.801	12.830	-.00456	.36534	.07518	.14237	-.00067	.00159	-.00174	.32397	.15511	
.799	15.039	-.00438	.49148	.07442	.13546	-.00007	.00171	.45533	.19939	2.28364	
.799	17.277	-.00394	.62106	.07177	.13572	-.00116	.00198	.00113	.57172	2.25230	
.799	19.487	-.00175	.74364	.07132	.12969	-.00090	.00163	-.00143	.67725	.31531	
.799	21.685	.00808	.82815	.07772	.13447	-.00227	.00112	-.00161	.74161	.37221	

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LARCATEE-64 (LA-51) (P1FM4) (W1EST) (14)

(RHV005)

## PARAMETRIC DATA

BETA = .000 ELEVTR = -29.000  
 ALTRON = .000 BDFLAP = -11.700  
 SPC3RK = .000

RUN NO. 137 0

CH	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D	
-.894	.50736	.53427	.12787	.22366	.00325	.00102	.54722	.15529	-3.52372	
-.894	.41076	.41076	.12520	.22392	.00460	.00041	.4948	.13029	-3.14284	
-.894	.31200	.31200	.12447	.22417	.00392	.00036	.06104	.13029	-3.14284	
-.894	.21399	.21399	.12344	.22447	.00393	.00036	.05196	.127593	-2.41891	
-.894	.11575	.11575	.12211	.22447	.00393	.00036	.05196	.127593	-2.41891	
-.894	.01355	.01355	.12011	.11558	.00429	.00013	.00258	.13678	-1.28548	
-.894	.3956	.3956	.08786	.10778	.00523	.00065	.00066	.01595	.11017	.14481
-.894	.2955	.2955	.08786	.10778	.00523	.00065	.00066	.01595	.11017	.14481
-.894	.1954	.1954	.08221	.10432	.00523	.00164	.00298	.16387	.13016	1.25899
-.894	.0953	.0953	.08221	.10432	.00523	.00164	.00298	.16387	.13016	1.25899
-.894	.00523	.00523	.08221	.10432	.00523	.00164	.00298	.16387	.13016	1.25899
10.83	.205	.205	.31628	.10641	.01259	.00067	.00224	.00148	.00065	.177280
10.83	.105	.105	.31628	.10641	.01259	.00067	.00224	.00148	.00065	.177280
10.83	.005	.005	.40307	.10572	.01612	.00075	.00216	.00159	.00059	.211900
13.15	.909	.909	.50164	.10572	.01612	.00075	.00216	.00159	.00059	.211900
15.337	.899	.899	.59715	.10290	.01641	.00165	.00174	.001034	.00057	.25718
17.58*	.899	.899	.59715	.10290	.01641	.00165	.00174	.001034	.00057	.25718
19.82*	.909	.909	.59715	.10290	.01641	.00165	.00174	.001034	.00057	.25718
21.947	.898	.898	.51356	.87456	.15725	.00149	.00537	.00537	.00537	.42634

RUN NO. 12/ 0

CH	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D	
.980	.55002	.18792	.24706	.00135	.00093	.00336	.54576	.21232	-2.34694	
.980	-.00750	-.48553	.18277	.22625	.00165	.00059	.00042	.40113	.18586	-2.17440
.980	-.00144	-.48553	.17664	.20745	.00237	.00036	.00182	.27009	.16833	-1.60452
.980	1.780	.26239	.18799	.00125	.00031	.00189	.12969	.15990	.81108	
.980	.00260	-.11618	.18799	.00125	.00031	.00189	.12969	.15990	.81108	
.980	4.015	.03770	.16444	.00050	.00066	.00043	.00013	.19214	.19214	.82758
.980	6.243	.00195	.16444	.00050	.00066	.00043	.00013	.16143	.16143	.82758
.980	8.460	-.20115	.18337	.16917	.00394	.00081	.00081	.00081	.00081	.23590
.980	9.979	10.741	-.00010	.35524	.15744	.00144	.00144	.00144	.00144	.1.38069
.980	12.374	.00034	.36116	.16728	.00870	-.00011	.00248	.00304	.00304	.27543
.980	15.162	.00112	.64342	.16411	.07143	.00037	.00311	.00423	.00423	.1.64597
.979	17.354	.00062	.77395	.16954	.05959	.00065	.00363	.00416	.00416	.1.76959
.979	19.576	-.00150	.91004	.15756	.04386	-.00213	.00364	.00323	.00323	.1.77715
.979	21.780	-.00258	1.03952	.15492	.03608	-.00167	.00348	.00235	.00235	.1.71433

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## LARCOPT-664 (LA-51) (B1F1M1) (WIE1SD) (V1)

## (RHWOODS)

## PARAMETRIC DATA

RUN NO.	117 0	BETA	CN	CA	CLM	COL	CYN	CY	CD	L/D
1.200	-2.604	-.00052	-.44407	.19631	.20986	.00213	.00142	.00276	-.43470	-2.00969
1.201	-.333	.00128	-.20336	.19133	.16967	.00253	.00203	.00299	-.20225	-.19297
1.201	1.915	.00489	-.153345	.18732	.15667	.00282	.00132	.00463	-.00132	-.76405
1.200	4.161	.00259	.00462	.10460	.11158	.00165	.00147	.00231	-.00079	-.18445
1.199	6.401	.00140	.14420	.18214	.08651	.00216	.00216	.00476	.00201	.62459
1.199	0.621	.00181	.28263	.17881	.06636	.00152	.00174	.00327	.00203	1.15271
1.200	10.859	.00019	.41563	.17664	.05252	.00116	.00230	.00273	.00177	1.46907
1.200	13.152	.00017	.55317	.17274	.03498	.00102	.00262	.00308	.00064	1.76141
1.200	15.352	.00156	.68004	.16752	.01687	.00157	.00342	.00474	.00106	1.60418
1.199	17.569	-.000253	.80868	.16345	.01279	-.00032	.00137	.00021	.00213	.39991
1.199	19.750	-.000075	.90010	.15953	.00417	.00064	.00202	.00090	.00265	.45769
1.198	21.936	-.000304	1.00597	.15337	.00370	.00029	.00233	-.00097	.01806	1.69861

## RUN NO. 407 0

RUN NO.	117 0	BETA	CN	CA	CLM	COL	CYN	CY	CD	L/D
1.300	-2.070	-.000398	-.36104	.03952	.02727	.00126	-.00046	.00030	-.00030	-.00030
1.300	-.016	-.00138	-.07623	.05627	.03546	.00161	-.00069	.00059	-.00024	-.135393
2.013	2.013	-.00102	.02177	.05527	.03364	.00195	-.00032	.00020	.00091	.00081
.350	4.072	-.00192	.11751	.03122	.02215	.00131	-.00030	.00040	.00050	.00045
.350	0.126	-.000303	.22264	.04406	.06166	.00198	-.00033	.00067	.00075	.00047
.350	0.165	-.000136	.31058	.03404	.06734	.00227	-.000102	.000397	.00052	.000363
.350	10.210	-.00191	.42366	.02245	.07560	.00195	-.00065	.00175	.00132	.00095
.350	12.273	-.00176	.53264	.01037	.09076	.00112	-.00045	.00126	.00130	.00130
.350	14.320	-.00175	.68043	.00623	.08311	.00283	-.00035	.00019	.00068	.000891
.349	15.493	-.00054	.75565	.00746	.06510	.00505	-.00045	.00119	.00280	.00209
.349	10.449	.000232	.87340	-.000249	.09877	.00675	-.00025	.001769	.002942	.002797
.349	29.513	.09133	.99766	-.01449	.10310	.00227	-.00087	.00326	.00362	.00362

## LARCOPT-664 (LA-51) (B1F1M3) (WIE1SD) (V1)

## (RHWOODS)

## PARAMETRIC DATA

RUN NO.	407 0	BETA	CN	CA	CLM	COL	CYN	CY	CD	L/D
1.300	-.000398	-.000398	-.36104	.03952	.02727	.00126	-.00046	.00030	-.00030	-.00030
1.300	-.016	-.00138	-.07623	.05627	.03546	.00161	-.00069	.00059	-.00024	-.135393
2.013	2.013	-.00102	.02177	.05527	.03364	.00195	-.00032	.00020	.00091	.00081
.350	4.072	-.00192	.11751	.03122	.02215	.00131	-.00030	.00040	.00050	.00045
.350	0.126	-.000303	.22264	.04406	.06166	.00198	-.00033	.00067	.00075	.00047
.350	0.165	-.000136	.31058	.03404	.06734	.00227	-.000102	.000397	.00052	.000363
.350	10.210	-.00191	.42366	.02245	.07560	.00195	-.00065	.00175	.00132	.00095
.350	12.273	-.00176	.53264	.01037	.09076	.00112	-.00045	.00126	.00130	.00130
.350	14.320	-.00175	.68043	.00623	.08311	.00283	-.00035	.00019	.00068	.000891
.349	15.493	-.00054	.75565	.00746	.06510	.00505	-.00045	.00119	.00280	.00209
.349	10.449	.000232	.87340	-.000249	.09877	.00675	-.00025	.001769	.002942	.002797
.349	29.513	.09133	.99766	-.01449	.10310	.00227	-.00087	.00326	.00362	.00362

## LAST TABULATED SOURCE DATA

LARC9PT-604 (LA-51) (S1F1N1C3) (WIE180) (V1)

(RHVDS)

## PARAMETRIC DATA

BETA = .000  
ATIRON = .000  
SPDBRK = .000

RUN NO. 39/0  
 MACH ALPHA CETA CN CA CLM CBL CYN CL CD LD  
 .850 -2.343 -.0101 .21306 .06003 .05032 .00147 .00025 -.21243 .06977 -3.00865  
 .800 -.126 -.00277 -.10431 .06163 .05576 .00150 .00012 -.10417 .06166 -1.68408  
 .500 2.084 .00096 .00562 .06025 .06440 .00162 .00023 -.00107 .06445 .07324  
 .799 4.293 .00145 .12832 .05713 .06080 .00162 .00023 -.00107 .06559 1.55745  
 .801 3.341 .00038 .25587 .05524 .06994 .00162 .00023 -.00107 .06402 2.35145  
 .801 8.756 -.00114 .37261 .05561 .07375 .00240 .00119 -.00107 .05581 1.11176  
 .801 10.967 -.00098 .46785 .05670 .07717 .00247 .00116 .00116 .46616 3.15303  
 .801 13.158 .00164 .58965 .05576 .03175 .00155 .00114 .00114 .46616 1.9241  
 .801 15.417 .00048 .73284 .05974 .07524 .00389 .00143 .00107 .69559 .25241 2.73594  
 .801 17.654 .00594 .57023 .05160 .07150 .00167 .00115 .00115 .81061 .32252 2.51335  
 .801 19.866 .00547 .38281 .05287 .07410 .00255 .00142 .00142 .91240 .39553 2.35228  
 .801 22.037 .00667 1.07222 .00560 .09642 .00246 .00155 .00155 .96554 .48326 2.09308

RUN NO. 39/0  
 MACH ALPHA CETA CN CA CLM CBL CYN CL CD LD  
 .900 -2.412 -.00831 -.23593 .07455 .07172 .00130 .00125 .00162 .00162 -.00162  
 .900 -.130 .00192 .01026 .00295 .05674 .00279 .00039 .00170 .00170 .00170  
 .500 2.47 .00248 .57752 .06856 .00704 .00121 .00105 .00105 .00105 .00105  
 .900 4.399 .00559 .15031 .07775 .00127 .00122 .00142 .00142 .00142 .00142  
 .500 6.651 .00468 .27138 .06332 .07161 .00162 .00164 .00140 .00140 .00140  
 .899 8.914 .00413 .39934 .07986 .00162 .00162 .00140 .00140 .00140 .00140  
 .900 11.166 .00714 .55454 .08427 .03569 .00245 .00245 .00245 .00245 .00245  
 .901 13.438 .00733 .66293 .08598 .06210 .00164 .00164 .00175 .00175 .00175  
 .901 15.725 .00478 .80668 .03743 .05390 .00119 .00119 .00119 .00119 .00119  
 .899 18.005 .00644 .93823 .08945 .05635 .00062 .00062 .00062 .00062 .00062  
 .900 20.222 .00797 1.02983 .09459 .07216 .00088 .00088 .00075 .00075 .00075  
 .900 22.403 .01315 1.10472 .09636 .03761 1.0636 .00144 .00144 .00144 .00144  
 .900

## LARC81PT-684 (LA-51) (B1F1MC3) (ME1SD) (V1)

(RHVND6)

## PARAMETRIC DATA

BETA = .0000  
 ALFCN = .0000  
 SPDRK = .0000

RUN NO. 37/ 0

MACH	ALPHA	BETA	CN	CA	CLN	CLL	CY	CL	CD	CLD
.980	-2.403	-.01116	-.222C71	.12820	.01532	.01173	.00175	-.2214	.18759	-.16721
.980	-.115	.00059	-.08333	.12953	.03656	.01181	.00149	-.00197	.12870	-.64045
.980	2.224	.00735	.06371	.12993	.05032	.01163	.00120	-.00462	.13228	.44317
.981	4.524	.00692	.06166	.12826	.05302	.01152	.00170	-.00501	.19540	1.35532
.981	6.855	.00795	.35351	.12564	.04776	.01144	.00261	-.00253	.33198	.16694
.979	9.161	.01180	.40511	.12557	.03970	.01234	.00342	-.00523	.46185	.20252
.980	11.472	.05758	.62661	.12939	.02795	.01086	.00254	-.00632	.59016	.25342
.979	13.783	.00665	.78900	.13191	.04101	.01111	.00294	-.010785	.73195	.31587
.979	16.075	.01254	.94040	.13583	.00395	.00055	.00206	-.00833	.86657	.39369
.981	18.404	.01341	1.08341	.13334	-.00426	.00070	.00524	-.01122	.90257	.22274
.979	20.649	.01954	1.19016	.12955	.00729	-.210192	.01356	-.01335	.106808	.54072
.981	21.322	.01728	1.22146	.12819	.01366	-.00177	.00316	-.011481	.109123	.56356

RUN NO. 36/ 0

MACH	ALFHA	BETA	CN	CA	CLN	CLL	CY	CL	CD	CLC
1.200	-2.420	-.01513	-.20716	.14230	.07576	.01135	.00146	.00420	.20096	.15100
1.200	-.076	-.00354	-.05350	.14317	.05312	.00125	-.00305	-.05031	.14525	-.13251
1.199	2.269	.00202	.08849	.14234	.03341	.00145	.00167	-.00118	.06256	.14573
1.200	4.625	.00048	.23475	.14262	.01592	.00173	.00192	-.00124	.22240	.16103
1.200	6.952	.00308	.37338	.14346	.00401	.00232	.00180	-.00251	.35375	.16766
1.200	9.285	.00274	.50280	.14235	-.00053	.00112	.00125	-.00251	.47324	.22164
1.200	11.631	.00082	.64475	.14133	-.01121	-.00107	.00158	-.00199	.61302	.26342
1.199	13.969	.00305	.79015	.14305	-.02563	.00053	.00127	-.02566	.73224	.32957
1.199	15.301	.00657	.91979	.14253	-.03149	.00199	.00176	-.00547	.04280	.39502
1.199	16.502	.01055	1.03071	.14132	-.02034	-.00069	.00148	-.00576	.93154	.46241
1.199	20.800	.01059	1.16158	.13639	-.02216	-.00036	.00157	-.00645	.1.02203	.53025
1.199	23.202	.01537	1.26312	.13317	-.01762	-.00273	.00135	-.00266	1.10845	.02904

(RHV007)

## PARAMETRIC DATA

MACH	ALPHA	BETA	CN	CA	CLM	CL	CY	C <sub>Y</sub>	CD	C <sub>D</sub>	L/D
RUN NO. 33/ 0											
.350	.38	.109	-.000300	-.390034	.09749	.41705	.000000	.000019	.001032	.001032	-.9.01819
.352	.38	.834	-.00190	-.260009	.08033	.16221	.000000	.000000	.000000	.000000	-.4.34500
.354	.38	.164	-.00191	-.25227	.06019	.12001	.000000	.000000	.000044	.000044	-.4.20289
.355	.38	1.565	-.00110	-.17422	.06180	.13415	.00102	.000061	.000015	.000015	-.3.01063
.351	.38	3.254	-.00094	-.07907	.05631	.14122	.000036	.000004	.000017	.000017	-.1.37261
.351	.38	5.973	-.00044	.01576	.05262	.15037	.000079	.000000	.000000	.000000	-.05391
.352	.38	8.356	-.00127	.11977	.04351	.17995	.000000	.000000	.000020	.000020	1.67006
.351	.38	10.177	-.00271	.22459	.03239	.16105	.000087	.000000	.000000	.000000	3.00003
.352	.38	12.370	-.00263	.32352	.02820	.17274	.000044	.000000	.000072	.000072	3.47311
.352	.38	14.167	-.00059	.43663	.01556	.17614	.000056	.000000	.00101	.00101	3.42677
.352	.38	16.441	-.00015	.56540	.01121	.16054	.000275	.000000	.000045	.000045	1.7788
.352	.38	18.305	-.00100	.57647	.00466	.15090	.000520	.000000	.000051	.000051	2.33155
.351	.38	20.158	-.00332	.79631	.00842	.16836	.000420	.000000	.000033	.000033	2.75915
RUN NO. 34/ 0											
.801	.82	2.623	-.51194	-.41204	.07024	.46059	.000000	.000014	.000000	.000000	-.52902
.802	.82	7.511	-.000593	.28657	.07213	.16217	.000000	.000000	.000005	.000005	-.5.82847
.801	.82	1.776	-.00057	-.17060	.07143	.14001	.000000	.000000	.000015	.000015	-.5.61267
.801	.82	4.409	-.00125	.02958	.05743	.15059	.000000	.000000	.000000	.000000	-.53387
.800	.82	6.218	-.00006	.07369	.06413	.19500	.000032	.000000	.000051	.000051	-.9.268
.801	.82	8.387	-.00077	.19835	.06223	.15000	.000080	.000000	.000040	.000040	2.05807
.801	.82	10.685	-.00062	.31489	.06336	.16083	.000156	.000000	.000026	.000026	2.46659
.801	.82	12.759	-.00201	.40402	.06525	.17746	.001182	.000000	.000000	.000000	2.48228
.801	.82	15.024	-.00003	.51740	.06645	.16537	.00296	.000000	.000000	.000000	2.43314
.801	.82	17.418	-.00347	.63623	.06825	.16290	.000206	.000000	.000024	.000024	2.24457
.801	.82	19.473	-.00675	.75943	.06889	.19475	.001250	.000000	.000095	.000095	2.17845
.800	.82	21.555	-.00391	.00391	.06812	.20053	.000211	.000000	.000022	.000022	2.01549

LAS1 TABULATED SOURCE DATA  
LARGEFILE-694 (LA-51) (01F14C3) (W1E18) (V1)

PAGE 17

(RMWV07)

PARAMETRIC DATA

BETA =	.000	ELEVTR =	-10.000
AILRDN =	.000	BDFLAP =	-11.700
SPDRK =	.000		

RUN NO. 33 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CL	CY	CYN	CL	CD	L/D
.500	-2.732	-.61245	-.02890	.09251	.17221	.00056	.00104	.00201	.11285	-3.73944	
.501	-.514	-.00442	-.28721	.09410	.16538	.00132	.00053	.00695	.05866	-2.96631	
.501	1.799	.60153	-.44573	.09374	.15726	.00135	.00023	.00100	.00912	-1.66810	
.501	4.193	.60313	-.00671	.09241	.14012	.00126	.00072	.00253	.00265	-.00085	
.501	6.324	.60257	.13670	.05013	.14511	.00138	.00114	.00235	.02612	.10465	1.20416
.501	8.627	.00125	.47020	.09018	.14179	.00050	.00158	.00215	.253561	.12970	1.95545
.501	10.669	.00204	.09562	.09389	.13538	.00161	.00163	.00205	.39121	.16575	2.26389
.501	13.139	.00536	.52562	.09173	.13898	.00104	.00202	.00195	.49101	.20881	2.36149
.699	15.493	.00194	.64697	.09227	.14590	.00135	.00234	.00365	.59636	.26056	2.28644
.699	17.650	.00223	.77180	.09280	.15118	.00001	.00316	.00474	.71100	.32417	2.19330
.699	19.652	.00549	.87855	.09688	.16929	.00049	.00219	.00735	.73098	.39021	2.02707
.699	22.369	.01003	.95887	.10035	.20396	.00034	.00318	.00884	.84662	.45709	1.65246

RUN NO. 32 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CL	CY	CYN	CL	CD	L/D
.979	-2.800	-.01505	-.42404	.14711	.16760	.00136	.00114	.00355	.41365	-2.54534	
.979	-.492	-.00442	-.26705	.14169	.17183	.00177	.00046	.00522	.44838	-1.64230	
.981	1.839	.00222	-.11192	.14136	.13934	.00142	.00098	.00211	.13769	-.64553	
.981	4.168	.00436	.03619	.15955	.15002	.00102	.00109	.00317	.02590	.14102	.18261
.981	6.581	.00623	.10621	.13720	.13918	.00196	.00185	.00469	.17919	.15887	1.12791
.981	8.816	.00323	.34440	.13636	.12765	-.00017	.00217	.00581	.31942	.16756	1.71203
.980	11.230	.01492	.49574	.13766	.11079	-.00111	.00214	.01666	.46336	.227235	1.50024
.979	13.816	.00697	.66715	.13901	.59008	.00046	.00289	.01646	.61446	.29506	2.08332
.969	15.916	.01249	.79725	.13813	.56698	.00024	.00353	.00577	.72090	.35149	2.07375
.969	16.049	.01255	.93020	.13379	.61680	-.00036	.00362	.00098	.84297	.41541	2.02625
.969	20.235	.02009	1.04057	.13654	.69651	-.00128	.00319	.01311	.53103	.48412	1.92273
.969	22.936	.01347	1.16762	.12657	.11017	-.00332	.00108	.00480	.142562	.57196	1.79352

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## LA51 TABULATED SOURCE DATA

PAGE 18

LARC8TP7-684 (LA-51) (B1F1M1C3) (W1E1SD) (W1)

(RHV007)

## PARAMETRIC DATA

BETA = .000  
AILRCN = .000  
SPDRK = .000

ELEVTR = -10.000  
BDFLAP = -11.700

RUN NO. 31/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
1.200	-2.747	-.01805	-.33678	.16349	.14875	.00079	.00016	-.32835	.17944	-1.83095
1.200	-.395	-.00431	-.16514	.16284	.12574	.00095	.00131	-.18401	.16112	-1.12123
1.200	1.528	.00155	-.03833	.16106	.10777	.00093	.00094	-.00166	.04533	.23296
1.201	4.332	.00167	.10947	.15663	.09510	.00104	.00091	-.00169	.06718	.56383
1.200	6.665	.00275	.25279	.15649	.07511	.00118	.00129	-.00256	.23232	1.28121
1.200	9.055	.00361	.39784	.13304	.06386	.00085	.00125	-.00304	.36676	1.73515
1.200	11.297	.00366	.53174	.14974	.05575	.00081	.00134	-.00296	.49210	2.96050
1.200	13.767	.00213	.68613	.14882	.04053	-.00073	.00171	-.00166	.63156	.38613
1.201	15.651	.00750	.81512	.14658	.03341	.00061	.00169	-.00494	.74516	2.04158
1.200	18.444	.01198	.93725	.14576	.03415	.00042	.00219	-.00731	.84474	1.94452
1.195	20.501	.01266	1.03507	.13518	.04630	.00010	.00083	-.00756	.92013	.49357
1.200	22.912	.01371	1.15339	.13145	.03112	.00030	.00132	-.00825	1.61132	.53994

LARC8TP7-684 (LA-51) (C1F1M1C3) (W1E1SD) (W1)

(RHV008)

## PARAMETRIC DATA

BETA = .000  
AILRCN = .000  
SPDRK = .000

ELEVTR = -10.000  
BDFLAP = -11.700

RUN NO. 30/0

MACH	ALPHA	BETA	CN	CA	CLM	CLW	CBL	CYN	CL	CD	L/D
1.351	-2.122	5.9314	-.35582	.05407	.14257	.00273	.00073	-.52743	.53357	.56775	-5.23781
1.350	-.008	5.03575	-.25376	.05677	.12034	.00142	.00125	-.67556	-.25577	.05601	-4.35214
1.350	1.862	5.03272	-.17206	.05663	.12663	.00314	.00103	-.07317	-.17394	.05143	-3.34420
1.350	4.072	5.02135	-.07354	.05543	.13709	-.03182	.00175	-.07041	-.07427	.05136	-1.47417
1.350	4.247	5.01621	-.02761	.05336	.14114	-.06267	.00149	-.07106	-.03262	.03074	-.52577
1.350	9.151	4.98336	.13036	.04102	.15335	-.00538	.00117	-.07256	.05917	.12326	2.03211
1.350	14.375	4.93899	.27521	.05240	.16565	-.002777	.00026	-.08814	.67773	.051910	3.49149
1.350	12.258	4.91622	.32349	.01946	.16780	-.00845	.00219	-.29366	.32173	.58250	3.39465
1.350	17.471	4.87564	.48785	.01517	.16737	-.00612	.00023	-.07306	.44913	.13202	5.27188
1.350	16.354	4.82537	.50170	.01124	.17240	-.00842	.00051	-.07350	.35475	.17561	2.13890
1.351	18.555	4.77295	.60534	.00311	.16134	-.00756	.00058	-.07356	.64873	.22194	2.95384
1.350	20.591	4.71525	.60013	-.01279	.19186	-.00941	.00058	-.07411	.75919	.27156	2.79554

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## LAST TABULATED SOURCE DATA

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LARC8TPPT-684 (LA-51) (B1F1M1C3) (W1E1S0) (V1)

(RHVNDR8)

PARAMETRIC DATA		
BETA = 5.000	ELEVTR = -10.000	L/D
AILRDN = .0000	BOFLAP = -11.700	
SPCBRK = .0000		

RUN NO. 29/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD
.8000	-2.575	5.14541	-.41022	.06794	.14000	.00534	.00420	-.00701	-.40675	.08630
.8000	-3.304	5.15066	-.27497	.07009	.13682	.00212	.00383	-.00670	-.27459	.07155
.801	1.911	5.14734	-.15867	.07030	.14445	-.0058	.00328	-.00865	-.16093	.06497
.8000	4.412	5.12928	-.02398	.06672	.15086	-.00306	.00329	-.00865	-.02904	.06457
.801	6.486	5.10958	.09261	.06264	.15160	-.00528	.00406	-.00830	.00494	.07270
.8000	8.906	5.07524	.22524	.06038	.15821	-.00667	.00411	-.00747	.21318	.09452
.8000	10.008	5.04565	.32322	.06137	.16205	-.00641	.00425	-.00798	.30598	.12089
.8000	13.328	4.99718	.43855	.06198	.17385	-.00745	.00285	-.00788	.41245	.16141
.8000	15.239	4.96146	.54352	.06107	.17770	-.00567	.00196	-.00744	.50835	.20179
.8000	17.553	4.91703	.64916	.06428	.19123	-.00800	.00077	-.00825	.59955	.25707
.8000	19.788	4.85537	.77234	.06459	.19538	-.00784	.00322	-.00888	.70487	.32225
.8000	22.038	4.79013	.88777	.06338	.21068	-.00695	-.00242	-.00780	.79912	.39186

RUN NO. 28/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD
.9000	-2.654	5.17770	-.42213	.09018	.16388	.00682	.00383	-.00210	-.41751	.09663
.9000	-2.283	5.18352	-.26574	.09194	.15085	.00326	.00395	-.00241	-.26520	.09325
.9000	-1.105	5.18551	-.24248	.09157	.15336	.00280	.00379	-.00320	-.24265	.09112
.901	2.198	5.10124	-.11553	.09233	.14731	-.00221	.00389	-.00300	-.11898	.08787
.901	4.473	5.16491	.02698	.09594	.14694	-.00140	.00140	-.00102	.01981	.02346
.901	6.778	5.13630	.16717	.08843	.13638	-.00338	.00348	-.00348	.15557	.10754
.9000	8.986	5.10763	.29404	.08750	.15656	-.00441	.00291	-.00312	.27377	.09112
.9000	11.207	5.07249	.42362	.08840	.13325	-.00583	.00092	-.00878	.39836	.16514
.899	13.547	5.03553	.55418	.08778	.13501	-.00592	.00193	-.00815	.51820	.21516
.900	15.631	4.99147	.66594	.08754	.13884	-.00612	.00472	-.00817	.61775	.26374
.900	18.009	4.94012	.79219	.08932	.14701	-.00569	.00637	-.00830	.72567	.32983
.899	21.404	4.87722	.88470	.09194	.17653	-.00580	.00897	-.00856	.79714	.39461
.900	22.438	4.819245	.94407	.09558	.21189	-.00655	-.01353	-.017736	.03612	.44869

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(LA51V02)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 ALTRON = .000 BDFLAP = -11.700  
 SPDBRK = .000

RUN NO. 27/11

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.594	3.20537	-.41052	.44253	.17219	.03386	.00725	-.10261	-.40380	.16196	-2.49202
.980	-2.531	5.21031	-.25806	.14152	.15559	-.03095	.00722	-.10217	-.26727	.14301	-1.75841
.981	-1.119	5.21135	-.23658	.14245	.16347	-.03067	.00702	-.10123	-.23047	.14196	-1.62619
.981	2.742	5.19983	-.06215	.14071	.15114	-.03040	.00691	-.09851	-.07604	.12775	-1.50885
.981	4.708	5.18531	.06943	.12535	.14792	-.03020	.00686	-.09726	-.05741	.14584	-1.39001
.980	5.933	5.14537	.21110	.13899	.15399	-.03074	.00674	-.09735	-.02297	.19276	-1.17941
.980	9.266	5.11626	.36814	.13814	.12751	-.03063	.00663	-.09693	-.01659	.16561	-1.74371
.980	11.790	5.05576	.53905	.15873	.16267	-.03078	.00789	-.09466	-.01246	.49941	-2.03302
.980	14.716	5.01134	.72195	.18684	.16851	-.03079	.00797	-.09456	-.01629	.65250	-1.95516
.980	16.964	4.96134	.90426	.13394	.19316	-.03085	.00818	-.09347	-.01663	.78759	-2.07109
.979	19.679	4.93088	.96179	.12816	.15299	-.03074	.00848	-.09159	-.01776	.87001	-1.92461
.980	25.714	4.85532	1.0682	.12427	.09384	-.03121	.00745	-.09051	-.01651	.87001	-1.92461
.980	27.961	4.78747	.15765	.12512	.11225	-.03125	.00745	-.09051	-.01651	.87001	-1.92461

RUN NO. 28/2

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.507	5.233489	-.32292	.16361	.14510	-.03250	.00645	-.10218	-.30218	.14218	-1.68612
1.200	-1.105	5.233342	-.47524	.16380	.12347	-.03257	.00647	-.10218	-.17124	.16581	-1.36241
1.201	2.137	5.22257	-.03351	.16196	.13985	-.03251	.00651	-.09821	-.03624	.16581	-1.22649
1.200	4.557	5.19969	.11593	.15915	.16273	-.03057	.00651	-.09521	-.06521	.13872	-1.23557
1.200	6.857	5.15654	.26202	.15535	.07556	-.03057	.00651	-.09521	-.06521	.18676	-1.20311
1.200	9.300	5.11557	.41237	.15348	.03336	-.03056	.00716	-.09743	-.03624	.21213	-1.21050
1.200	10.458	5.10145	.48071	.15146	.06831	-.03052	.00710	-.09743	-.03624	.23679	-1.18556
1.201	13.553	5.07798	.60279	.1663	.04552	-.03053	.00710	-.09161	-.01726	.81122	-1.29576
1.200	15.886	4.990457	.81084	.14195	.04665	-.03062	.00704	-.09051	-.01651	.55382	-2.03764
1.201	16.676	4.91805	.94451	.13091	.04295	-.03062	.00704	-.09051	-.01651	.85136	-1.21225
1.199	20.976	4.84764	1.05070	.13292	.05411	-.03070	.00745	-.09745	-.01667	.94716	-1.87763
1.200	25.334	4.77733	.17103	.12512	.05454	-.03074	.00745	-.09745	-.01667	.94716	-1.87763

## LAST TABULATED SOURCE DATA

LARC8TP-684 (LA-51) (B1F1M1C4) (WE1SD) (V1)

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(INV059)

## PARAMETRIC DATA

BETA	=	.000
ATLON	=	.000
SPPBK	=	.000

RUN NO.

REV 0

RUN NO.

REV 0

MACH	ALPHA	BETA	CN	CA	CLM	CL	CY	CL	CD	C <sub>D</sub>	C <sub>L</sub>
.349	.22.466	-.000371	.15246	.05537	.02442	.00165	.00007	.00752	-.15777	.06084	-.47001
.350	.2008	-.000322	.06625	.05724	.03693	.00135	.00008	.00410	-.06024	.05724	-.55232
.350	2.139	-.000118	.52571	.05624	.04870	.00199	-.00048	.02917	.02729	.05725	.70655
.349	4.063	-.00174	.13379	.05278	.06336	.00170	-.00016	.02959	.06217	.06217	2.08557
.349	6.157	-.00193	.23669	.04629	.07459	.00147	-.00041	.00445	.23036	.07141	3.23996
.350	8.197	-.00304	.33337	.03760	.08705	.00225	-.00042	.00674	.32510	.08482	3.83998
.350	10.254	-.000365	.44136	.02621	.10147	.00241	.00023	.00733	.42934	.41436	4.17444
.350	12.299	-.001302	.54781	.01367	.11273	.00192	.00011	.00536	.53232	.00015	4.09331
.350	14.371	-.00152	.67271	.00907	.11913	.00142	.00049	.00045	.56941	.17575	3.58957
.349	16.437	-.000015	.78058	.00575	.12989	.00019	.00010	-.00093	.7540	.22738	3.30117
.349	18.489	.00021	.90223	-.00152	.14425	.00244	.00140	-.00171	.85665	.28167	3.00745
.349	20.546	.00061	1.00837	-.01261	.16381	.00336	.00112	-.00231	.94912	.32227	2.77304

RUN NO.

REV 0

MACH	ALPHA	BETA	CN	CA	CLM	CL	CY	CL	CD	C <sub>D</sub>	C <sub>L</sub>
.800	-2.309	-.01261	.21490	.06031	.04595	.00106	.00051	.00399	-.2035	.05035	-.95265
.650	-.563	-.00280	.05226	.05153	.05681	.00128	.00049	.00112	-.09217	.06165	-.49776
.850	2.132	-.00097	.02254	.06090	.07123	.00134	.00024	.00025	.02173	.06173	.34431
.800	4.381	.00028	.15103	.05869	.07741	.00159	.00030	.00159	.14611	.07015	.070569
.800	6.595	.00239	.27555	.05784	.08530	.00111	.00095	.00216	.26799	.08010	.98753
.799	8.841	-.00067	.39632	.05665	.09475	.00205	.00060	.00066	.38259	.11362	.01265
.799	11.346	-.00102	.51082	.05991	.10241	.00216	.00076	.00088	.48987	.15568	.12667
.800	13.265	.00123	.61996	.06108	.11131	.00256	.00096	.00171	.58549	.21171	.09225
.800	15.500	.001641	.76736	.05959	.10737	.00355	.00159	.00351	.72553	.26249	.75635
.800	17.772	.000837	.91281	.06177	.10689	.00421	.00105	-.01512	.85071	.37649	2.53319
.800	19.997	.001972	1.02555	.06144	.11678	.00446	.00192	-.01670	.94271	.40804	2.78053
.800	22.168	.00126	1.03086	.06395	.15489	.00225	.00132	-.00132	.47356	.47356	.03852

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## LAS1 TABULATED SOURCE DATA

LARC8TP-684 (LA-51) (81F1MC4) (W1E1SD1) (V1)

(RHWD99)

## PARAMETRIC DATA

BETA	.000	.000	ELEVTR	.000
ATLSON	=	.000	BCFLAF	=
SFCBRK	=	.000		

RUN NO. 83 / 0

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	LD
.901	-2.388	-.01169	-.22875	.07508	.06614	.20134	.00107	.00438	-.22542	.00255	-2.66613
.909	-1.889	-.00129	-.09118	.07641	.07050	.00153	.00079	-.00033	.07655	.07106	-1.18954
.950	2.178	.00279	.03365	.07822	.07749	.00156	.00030	.00018	.03063	.07944	.33557
.950	4.455	.00421	.16337	.07913	.08475	.00138	.00025	.00021	.15372	.09158	1.71140
.951	6.727	.00475	.29360	.08044	.08782	.00193	.00126	.00037	.26216	.11426	2.46395
.950	9.003	.00383	.42641	.08188	.08955	.00225	.00156	.00031	.45834	.14759	2.76336
.950	11.251	.00409	.54972	.08353	.09223	.00203	.00130	.00020	.52357	.16234	2.76385
.951	13.556	.00364	.68980	.08455	.09559	.00173	.00142	.00012	.56176	.23598	2.65837
.950	15.865	.00397	.84291	.08485	.09122	.00170	.00258	.00074	.75761	.31254	3.26476
.950	18.113	.00495	.96306	.08807	.10325	.00369	.00199	.00061	.37337	.36320	3.1171
.950	20.350	.00257	.09238	.14270	.08123	.00185	.00059	.00016	.90536	.49197	2.15377
.950	22.294	.00130	.10908	.09748	.09332	.00272	.00132	.00012	.50712	.1.9121	

RUN NO. 82 / 0

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	LD
.980	-2.369	-.01234	-.21789	.12834	.07827	.00152	.00056	.00210	-.21240	.00254	-1.34762
.981	-0.556	-.03142	-.07624	.13071	.07558	.00157	.00111	-.00111	.07611	.13073	-1.50194
.981	2.278	.00417	.07257	.13158	.07650	.00123	.00032	-.00032	.06726	.13446	.50339
.980	4.613	.00492	.20316	.13071	.07546	.00120	.00156	-.00039	.21195	.14793	1.43272
.990	6.248	.00184	.37368	.12836	.07446	.00180	.00247	-.00049	.35541	.17252	2.55389
.990	9.274	.00187	.52015	.12894	.07320	.00156	.00330	-.00055	.49773	.23219	2.34824
.980	11.581	.00169	.65541	.12853	.06744	.00149	.00017	-.00061	.62096	.22349	3.41265
.980	13.779	.00191	.81339	.12990	.05619	.00157	.00318	-.00070	.75019	.38219	2.36220
.981	15.263	.00245	.97876	.13094	.04578	.00141	.00302	-.00034	.06693	.36380	2.45142
.980	16.379	.00115	1.11871	.13072	.04763	.00135	.00216	-.00022	.51676	.47334	2.12127
.980	20.836	.01329	1.23953	.12639	.07495	.00034	.00216	-.000875	.53725	.1.80410	
.980	21.411	.01289	1.23972	.12540	.08570	.00182	.00269	-.010966	.1.10338	.55331	1.91387

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1 ABC0101PT-6114 (1 A-51) (011E1M1CA) (W1E1SD) (W1)

(Continued)

כתר נסיך דנמרק

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RUN NO.	81/ 0	C.N.	C.N.
MACH	ALPHA	BETA	BETA
1.1.2010	-2.3.87	-0.01707	-20201
1.2.2010	-0.5.21	-0.01535	-04229
1.3.2010	2.3.15	.002687	.09365
1.4.2010	4.7.02	.00132	.24438
1.5.2010	7.0.46	.00156	.36703
1.6.2010	9.3.93	.00125	.52055
1.7.2010	11.7.43	-0.0020	.65775
1.8.2010	13.1.11	.00230	.80560
1.9.2010	16.1.46	.01761	.84062
1.10.2010	18.7.71	.01130	1.07157
1.11.2010	21.0.05	.01342	1.45659
1.12.2010	22.2.12	.01235	1.25380

LARCE:197-1684 (LA-51) (B) F1M1C4 (W1E1G1) (V1)

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## PARAMETRIC DATA

METRIC DATA

RUN NO.	90/0	WACH	ALPHA	SETA	CIN
		.330	-2.158	-.003465	-.33369
		.350	-.576	-.00231	-.25332
		.351	.127	-.00318	.24819
		.351	1.950	-.00047	-.16737
		.350	4.911	.03653	-.07031
		.350	6.115	-.00076	.03253
		.350	8.208	-.00015	.13492
		.350	10.417	-.00153	.24625
		.350	12.251	-.00085	.35051
		.350	14.144	-.00072	.45616
		.350	16.428	.00110	.50466
		.349	18.827	.00060	.75005

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LARC-TP-684 (LA-51) (B(F1H1CA) (WE1SD) (V1)

(RHV10)

## PARAMETRIC DATA

	BETA	AILRON	ELEVTR
	= .000	= .000	= -10.000
			BDFLAP = -11.700
			SPDRK = .000

RUN NO. 297 6

MACH	ALPHA	BETA	CN	CLM	CPL	CYN	CY	CL	CD	L/D
.800	-2.275	-.01185	.39972	.07005	.14214	.00035	.00053	-.39532	.03729	-4.54333
.800	.292	-.00410	.27261	.07200	.14499	.00077	.00133	.27224	.07339	-5.71593
.800	1.812	-.00094	.1616C	.07797	.15697	.00037	.00015	.163385	.06682	-2.42208
.800	2.190	.00033	.03011	.05554	.16607	.00081	.00025	.04109	.06572	-6.61589
.800	6.337	-.00045	.06874	.05562	.17605	.00020	.00024	.08791	.07541	1.57297
.801	6.624	.00042	.06451	.06451	.18613	.00080	.00276	.00090	.05209	2.14280
.800	12.839	.00021	.33255	.06567	.19397	.00161	.00235	.00098	.31427	.12703
.800	13.121	.00024	.44287	.05585	.20615	.00217	.00124	.00250	.41613	.16564
.800	13.275	.00552	.55427	.06601	.20927	.00450	.00033	.00274	.51730	.20910
.801	17.855	.00757	.75234	.06639	.21854	.00248	.00261	.00527	.64815	.232513
.801	19.650	.00785	.80235	.06703	.23144	.00221	.00099	.00159	.73285	.33344
.801	21.332	.00572	.91585	.06546	.24971	.00141	.00233	.00481	.82512	.07681

RUN NO. 987 0

MACH	ALPHA	BETA	CN	CLM	CBL	CYN	CY	CL	CD	L/D
.699	-2.644	-.01460	.42019	.09185	.16578	.00057	.00071	.00524	.11115	-3.73337
.699	-.370	-.00469	.27700	.09317	.16577	.00150	.00043	.20176	.05146	-2.51746
.699	1.966	.00194	.12801	.09362	.16503	.00172	.00014	.00577	.27639	-1.47062
.699	4.337	.00048	.01796	.06339	.15243	.00195	.00029	.00055	.06915	.06916
.699	6.587	.00149	.16591	.09202	.16238	.00074	.00060	.00141	.10442	.11477
.699	9.580	.00176	.28355	.09150	.16201	.00129	.00116	.00218	.15987	1.35887
.699	11.114	.00051	.43109	.09108	.16205	.00132	.00153	.00200	.45273	2.01876
.699	13.518	.00286	.57358	.09118	.17052	.00116	.00161	.00326	.45545	2.35048
.699	15.682	.00777	.58840	.09108	.17745	.00149	.00160	.00270	.53550	2.32542
.699	17.956	.00607	.81730	.09106	.18985	.00036	.00183	.00155	.57250	2.5429
.699	21.539	.01323	.92901	.09656	.24950	.00189	.00228	.00341	.33259	2.21334
.699	22.425	.02183	.96576	.10004	.27722	.00427	.00242	.01107	.83241	1.96451

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## L451 TABULATED SOURCE DATA

LARC-CPT-684 (LA-51) (B1F1MC4) (WE13D) (V1)

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(REV010)

## PARAMETRIC DATA

BETA = .000  
 ALRCN = .000  
 SPGRK = .000

ELEVTR = -10.000  
 BCFAC = -11.700

RUN NO. 877 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CY	CL	CD	CL/C
.979	-2.454	-.00946	-.39037	.14046	.18417	.00178	.00080	.00467	-.36407	.13705
.980	-.213	.00016	-.24037	.15905	.17468	.00169	.00102	.00126	-.21965	.13994
.980	2.018	.00290	-.05503	.14008	.17194	.00155	.00174	.00235	-.06950	.13654
.979	4.283	.00344	.05336	.13801	.16823	.00100	.00100	.00316	.54284	.14241
.979	6.519	.00539	.25250	.13780	.16304	.00172	.00172	.00437	.16555	.15991
.979	8.755	.00510	.35426	.13659	.15606	-.00011	.00214	.00496	.32934	.18892
.979	11.013	.00523	.50520	.15590	.14526	.00064	.00265	.00659	.17316	.23157
.978	13.242	.00723	.65025	.13563	.13915	.00032	.00210	.00320	.60490	.25197
.980	15.477	.00730	.79839	.13221	.13290	.00032	.00276	.00717	.73309	.34433
.980	17.726	.01156	.94370	.13207	.13008	-.00066	.00268	.01152	.63568	.41312
.980	19.951	.01143	1.05356	.12875	.14225	.00055	.00242	.00529	.59580	.45392
.979	22.102	.01195	1.14010	.12732	.17644	-.00055	.00280	.01101	1.01082	.34657

RUN NO. 867 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CY	CL	CD	CL/C
1.199	-2.411	-.01116	-.30772	.16346	.14291	.00067	.00136	.00128	-.30007	.17627
1.200	-.154	-.00178	-.16452	.16706	.12822	.00085	.00099	.00021	-.16455	.16350
1.200	2.095	.00108	-.02216	.16135	.11606	.00135	.00076	.00112	-.00015	.16042
1.200	4.353	.00219	.11957	.15940	.17511	.00130	.00073	.00137	.10713	.58011
1.200	6.623	.00149	.16032	.15757	.16673	.00125	.00105	.00198	.24714	.16655
1.200	8.875	.00136	.135621	.145515	.06365	.00064	.00080	.00164	.37445	.21519
1.199	11.142	.00246	.53474	.16951	.04736	.00054	.00097	.00239	.49223	.25249
1.199	13.399	.00244	.56705	.14409	.05517	.00096	.00091	.00235	.61420	.30339
1.199	15.630	.00321	.80682	.14340	.07589	.00051	.00100	.00447	.73369	.35728
1.196	17.859	.00327	.87927	.14176	.07422	.00032	.00185	.00713	.63105	.42505
1.193	20.070	.01165	1.04650	.15969	.07253	.00141	.00228	.00932	.93477	.49680
1.193	22.325	.01329	1.14004	.13543	.08317	.00112	.00213	.01023	.55221	.55515

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## LA51 TABULATED SOURCE DATA

LARCATT-584 (LA-51) (B1FM1C4) (WIE1SD) (V1)

(RHV11)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 ATLRDN = .000 SPFLAP = -11.700  
 SPDBRK = .000

RUN NO. 123/0

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	CL	CD	L/C
.351	-2.074	5.03212	-.34521	.05445	.10765	.00246	.00180	-.01751	-.34301	.01561	-.51258
.351	-.035	5.03512	-.24764	.05725	.11929	.00196	.00120	-.01237	-.24760	.01541	-.43124
.351	1.182	5.05631	-.23713	.05755	.12177	.00153	.00157	-.07550	-.23711	.01581	-.11715
.351	2.152	5.03256	-.14971	.05799	.13453	-.00061	.00551	-.07416	-.15137	.02450	-.63211
.351	4.226	5.02211	-.05611	.05606	.14620	-.00256	.00056	-.07296	-.05515	.01213	-.05741
.351	5.216	5.01745	.04879	.05574	.16147	-.01486	.00054	-.06897	-.04299	.00574	-.77128
.351	6.267	4.96157	.14948	.04346	.17535	-.00552	.00117	-.06882	-.14165	.00457	2.19362
.352	10.298	4.56220	.25127	.03126	.18798	-.00799	.00177	-.05882	-.24126	.01772	3.10332
.351	12.416	4.91588	.36525	.02027	.19972	-.00968	.00163	-.05635	-.05613	.00952	3.57873
.352	14.516	4.87358	.49175	.01121	.20535	-.01036	.00115	-.07115	-.47211	.12317	3.44855
.351	16.532	4.82551	.60974	.00214	.21555	-.00867	.00157	-.07249	-.50997	.18552	2.47421
.351	18.911	4.76181	.72768	.00437	.22953	-.00768	.00165	-.07357	.38717	.24504	2.86237
.351	26.676	4.70991	.82375	-.00253	.24296	-.00701	.00173	-.07158	.77158	.28845	2.87461

RUN NO. 124/0

MACH	ALPHA	BETA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/C
.600	-2.584	5.14748	-.40137	.05745	.12647	.00356	.00362	-.31761	-.31761	.08548	-.51356
.601	-1.154	5.15155	-.23916	.05920	.12956	.00159	.00344	-.08611	-.13817	.07997	-.55226
.600	1.915	5.14593	-.14951	.05732	.15156	-.00105	.00356	-.09487	-.15274	.05295	-.33227
.795	4.142	5.13145	-.03677	.05706	.15267	-.00139	.01263	-.08230	-.05559	.01546	-.54375
.792	6.092	5.10740	-.06723	.05390	.17284	-.00167	.01313	-.07795	-.03551	.07435	1.20376
.891	8.663	5.07702	.23031	.05248	.19123	-.00127	.00452	-.27850	-.21027	.09625	2.26369
.490	11.037	5.03669	.21412	.05362	.19138	-.00594	.00714	-.07742	.33255	.13052	2.56252
.395	13.250	4.99810	.46571	.05393	.20044	-.00658	.00825	-.07695	.43416	.16811	2.55519
.600	15.434	4.95470	.51050	.06336	.20946	-.00422	.00167	-.07814	.05397	.2.31127	2.31127
.289	17.684	4.90517	.60736	.06289	.22114	-.00591	.00087	-.08142	.54537	.21715	2.37455
.301	20.641	4.84965	.8396	.06533	.22413	-.00473	.00250	-.09058	.16210	.14512	2.20161
.396	22.315	4.76146	.53218	.06265	.23765	-.00523	.00334	-.09005	.03333	.41181	2.03525

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LAS1 TABULATED SOURCE DATA  
 LARC8TP-684 (LA-51) (B1F1MC4) (W1E1SD) (V1)

PAGE 27

(RHW011)

PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 ATROW = .000 BDFLIP = -11.700  
 SFCBRK = .000

RUN NO. 123/ 0

MACH	ALPHA	BETA	CN	CA	CLH	CBL	CYN	CY	CL	CD	L/D
.900	-2.653	5.17919	-.41383	.00940	.15652	.00671	-.00253	-.00925	.10846	-.77326	
.899	-.338	5.18395	-.26438	.09120	.15225	.00335	-.00259	-.00276	.09276	-.84428	
.900	1.962	5.17942	-.11805	.09217	.15982	.00094	-.00170	-.12114	.06807	-1.37512	
.899	4.268	5.16553	.02537	.09159	.15613	-.00264	.00498	.01870	.05322	.19128	
.900	6.578	5.13692	.16636	.09133	.15594	-.00424	.00371	-.00801	.15461	1.40394	
.900	8.881	5.10452	.30857	.08981	.15567	-.00556	.00322	-.00321	.25100	1.13366	
.899	11.140	5.06491	.43785	.06893	.16044	-.00719	.00158	-.07929	.41242	2.39989	
.898	13.436	5.02380	.56967	.08360	.16537	-.00157	-.00099	-.07881	.533.9	2.41105	
.899	15.723	4.97870	.69938	.08960	.17381	-.00173	-.00103	-.00146	.64823	2.35319	
.900	18.031	4.92701	.82968	.06918	.18359	-.00648	-.00119	-.00648	.76133	2.22866	
.900	20.251	4.87317	.91717	.09126	.22259	-.00710	-.00151	-.09049	.82889	2.05633	
.900	22.431	4.79433	.97183	.27173	.22059	-.00859	-.00166	-.07743	.86122	1.87362	

RUN NO. 122/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.482	5.15447	-.30974	.14183	.17554	.00344	.00687	-.10176	.38323	.15857	-2.41678
.981	-.231	5.15787	-.24140	.14192	.16931	-.00087	.00683	-.10183	.24703	.14250	-1.08992
.980	2.024	5.15086	-.09285	.14091	.16651	-.00113	.00641	-.09808	.05777	.13753	-7.093
.980	4.286	5.13372	.05936	.14123	.16401	-.00721	.00597	-.09395	.04371	.14432	.33750
.980	6.551	5.10856	.20742	.13969	.16209	-.00816	.00653	-.09114	.15012	.16245	1.17039
.980	8.801	5.07364	.36191	.13642	.15476	-.00865	.00625	-.08599	.33636	.16286	1.74409
.979	11.073	5.03290	.51447	.13660	.14360	-.00928	.00531	-.08146	.47866	.23267	2.05549
.979	13.295	4.98900	.65667	.13612	.13859	-.00913	.00366	-.07952	.60805	.28316	2.14439
.979	15.526	4.94100	.79572	.13530	.13543	-.00938	.00414	-.07972	.73152	.34337	2.12746
.979	17.786	4.88509	.93220	.13145	.14342	-.01045	.00217	-.07647	.84745	.40391	2.06749
.979	20.015	4.82097	1.05321	.12771	.15236	-.01269	-.00285	-.07271	.95067	.48212	1.97227
.980	22.196	4.75193	.15632	.12315	.17075	-.01045	-.00448	-.07164	1.02458	.55194	1.63937

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## LAS1 ILLUSTRATED SOURCE DATA

PAGE 28

LARC8TFT-681 (LA-51) (B1F1M1C4) (WME1SD) (V1)

(RHV011)

## PARAMETRIC DATA

BETA = 5.000  
 ALRDN = .0000  
 SFDRK = .0000

RUN NO. 121/0

MACH	ALPHA	BETA	CN	CA	CLN	CG	CYN	CL	CC	L/D
1.199	-2.433	5.17395	.30684	.16385	.14612	-.03350	.53744	-.10049	-.29961	.17672
1.199	-1.171	5.17341	-.16154	.16354	.12646	-.03079	.50650	-.09621	-.16115	.15452
1.200	2.109	5.16234	-.01612	.16253	.11630	-.05102	.00468	-.00708	-.02059	.15191
1.200	4.362	5.14145	.12637	.15955	.10379	-.00753	.10374	-.08488	-.11378	.16955
1.200	6.655	5.11545	.26834	.15787	.09591	-.00739	.01355	.08130	.24023	.16731
1.200	8.923	5.08320	.40540	.15598	.07599	-.00736	.00542	.07873	.36735	.17379
1.199	11.183	5.05274	.54004	.15246	.05811	-.00747	.01247	.07486	.50762	.25528
1.199	13.436	4.99995	.67330	.14903	.08525	-.00770	.01160	.07344	.67351	.35072
1.200	15.698	4.94760	.79641	.14512	.02452	-.00770	.00707	.07735	.35555	.21041
1.199	17.946	4.88224	.82367	.14189	.08260	-.00871	.00301	.06505	.41955	.16542
1.200	20.173	4.83534	1.04373	.13794	.08253	-.00798	.00614	.05892	.46852	.15236
1.199	22.415	4.78276	1.15611	.13477	.03119	-.00656	.00328	.04174	.56557	.17650

LARC8TFT-684 (LA-51) (B1F1M1) (WME1SD) (V1)

## PARAMETRIC DATA

BETA = 5.000  
 ALRDN = .0000  
 SFDRK = .0000

RUN NO. 135/3

MACH	ALPHA	BETA	CN	CA	CLN	CG	CYN	CL	CC	L/D
.350	-2.142	-.05336	-.19636	.05420	.02792	.00142	.00014	.05662	-.16422	.16039
.350	-.004	-.00023	-.05910	.05580	.03142	.01249	.00026	.06550	-.06510	.05555
.350	2.468	.00124	.03497	.05361	.03577	.01294	-.00042	.00119	.02622	.05557
.350	4.426	-.01114	.10354	.04573	.04155	.00273	.00051	.00175	.12639	.05466
.350	6.966	-.01095	.20947	.04174	.04522	.00247	.00023	.00165	.21486	.05170
.350	8.169	-.00845	.31935	.03280	.05062	.00260	.00006	.00125	.30845	.01721
.351	10.553	-.00524	.42817	.02512	.05585	.00290	.00046	.00405	.41420	.01927
.350	12.320	-.00235	.54952	.01213	.05873	.00319	.00003	.00476	.52596	.12913
.350	14.345	-.00181	.67792	.01684	.05270	.00101	.00023	.00264	.65323	.17924
.351	15.526	-.00076	.82132	.01515	.05610	.00140	.00001	.00001	.24065	.79521
.351	18.664	-.00024	.96814	.00484	.05128	.00133	.00057	.00142	.51442	.21123
.351	21.810	-.00218	1.19380	.00223	.05539	.00136	.00140	.00140	.44552	.11073

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CHARACTERISTIC DATA

BETTA =	.000	ELEVTR =	.000
AILRON =	.000	BLTLAF =	-11.700
SPDBRK =	.000		

EIN N°: 134/0

WAVE	ALPHA	BETA	C.N.
.870	-2.480	-.01793	-.22264
.860	-.0148	.01102	.10103
.850	2.507	.010302	.05374
.840	4.290	.00139	.12645
.799	7.037	.00306	.28092
.800	6.681	.01219	.37137
.801	11.021	.00768	.516.5
.802	13.182	.00222	.66443
.803	15.454	.01496	.81893
.804	18.859	.00513	1.01925
.799	20.102	.00647	1.14352
.799	22.456	.01415	1.191059

RUN NO. 133/ 0

WACH	ALPHA	BETA	CN	CA	CLM	CEL	CYN	CL	CD	L/D
		.9011	-.23823	.07318	.06390	.01255	.00110	.00216	-.23503	.2-82137
.9011	-2.448	-.07114	.07430	-.05366	.05632	.00279	.00112	-.001271	-.05358	-1.25765
.9011	-4.062	.01100	-.04175	.07429	-.05449	.01194	.00111	-.00401	.03062	.50342
.9011	2.386	.091372	-.04175	.07429	-.05449	.01194	.00111	-.00401	.07595	1.50342
.9011	4.323	.07074	.14440	.07221	.05535	.00172	.00107	-.00461	.13874	1.57120
.9011	6.640	.00667	.27105	.07149	.05776	.00221	.00178	-.00526	.26026	2.34570
.9011	8.887	.00786	.09086	.07270	.04935	.00137	.00263	-.00682	.39321	2.91121
.9011	11.253	.0094	.56418	.07431	.03885	.00152	.00347	-.00638	.55874	2.84465
.9011	13.535	.00927	.72447	.07674	.02716	.00468	.00398	-.00862	.68541	2.81193
.9011	15.792	.01107	.87666	.07958	.02146	.00514	.00375	-.00980	.82480	3.15956
.9011	18.194	.01294	1.03704	.08025	.02512	.00450	.00514	-.01240	.95114	2.40017
.9011	21.932	.01083	1.13861	.08095	.01751	.00216	.00322	-.00667	1.03031	4.9275
.9011	22.290	.00990	1.18027	.09105	.05998	.00297	.00348	-.00359	1.07392	1.50171

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LARC8TP7-684 (LA-51) (81F1M1) (W1E1S1) (V1)

(RHV012)

## PARAMETRIC DATA

BETA =	.000	ELEVTR =	.000
AIRON =	.000	BCFLAP =	-11.700
SFDRK =	.000		

RUN NO. 132 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
.979	-2.513	-.129	.23287	.12257	.07079	.00264	.00219	.00099	-.22727	.13266	-.1.71315
.981	1.959	.00327	.08738	.12440	.05598	.00252	.00159	-.00026	-.08710	.12460	-.69904
.980	1.959	.00751	.04357	.12371	.04443	.00232	.00171	-.00038	.03931	.12513	.31419
.980	4.545	.00804	.20539	.12097	.03225	.00201	.00208	-.00094	.19516	.13686	1.42591
.980	6.778	.00854	.34107	.11762	.02567	.00159	.00035	-.00764	.32481	.15756	2.06809
.980	9.321	.01012	.50530	.11651	.01443	.00137	.00042	-.00938	.41975	.19681	2.43760
.980	11.343	.00931	.54293	.11990	.00250	.00296	.00448	-.00931	.60569	.24401	2.48677
.980	13.704	.00493	.79857	.12086	-.00161	.00081	.00352	-.00627	.74721	.30560	2.43707
.981	16.187	.00738	.97911	.12635	-.01611	.00105	.00424	-.00824	.90507	.39428	2.29547
.981	18.465	.00834	1.13189	.12835	-.02514	.00055	.00401	-.00966	1.03296	.40025	2.13088
.981	20.815	.01212	1.28469	.13259	-.03064	.00112	.00483	-.011125	1.15373	.58046	1.90759
.981	21.907	.01036	1.34934	.15700	-.02389	.00222	.00451	-.01059	1.20341	.62404	1.92840

RUN NO. 131 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
1.200	-2.434	-.01244	-.20889	.13833	.07622	.00184	.00156	.00303	-.20283	.14708	-1.37906
1.200	-.016	-.00282	-.05721	.13795	.05078	.00195	.00137	-.00047	-.03717	.13795	-.41439
1.201	2.287	.00154	.08551	.13647	.02985	.00191	.00095	-.00158	.08440	.13979	.37513
1.201	4.445	.00093	.22133	.15451	.01187	.00128	.00079	-.00125	.21124	.15126	1.38991
1.200	7.060	.00269	.37647	.13210	-.00221	.00084	.00135	-.00259	.35738	.17737	2.51491
1.200	9.265	.00081	.51476	.13149	-.01389	.00246	.00145	-.00195	.46687	.21265	2.28953
1.200	11.720	.00151	.68036	.13247	-.03327	.00294	.00155	-.00237	.63927	.25791	2.38616
1.200	14.098	.00080	.82819	.13370	-.04569	.00135	.00168	-.00224	.77757	.33141	2.32542
1.200	16.388	.00271	.95197	.13761	-.05356	.00129	.00195	-.00332	.68056	.49343	2.19139
1.200	18.645	.00593	1.08462	.14155	-.05730	.00098	.00203	-.00474	.98242	.48096	2.04260
1.200	20.959	.00839	1.20404	.14299	-.05747	.00112	.00241	-.00523	1.07523	.56421	1.90217
1.200	23.094	.00779	1.30476	.14060	-.05320	.00112	.00242	-.00574	1.14515	.64112	1.78602

## LA51 TABULATED SOURCE DATA

LARC0TP-684 (LA-51) (B1F1M1) (ME1S1) (V1)

PAGE 31

(RHV013)

## PARAMETRIC DATA

BETA = .0000  
 ALTRON = .0000  
 SPDBRK = .0000

RUN NO. 140/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.138	-.00345	-.35616	.03589	.11471	.00157	-.00043	.00753	-.35303	.06914	-5.11766
.350	-.094	-.001489	-.26532	.05862	.11844	.00165	-.00039	.00875	-.26222	.05906	-4.49092
.350	.242	-.00239	-.25416	.05880	.11842	.00175	-.00029	.00559	-.25440	.05772	-4.49724
.351	2.135	-.00032	-.16741	.03827	.12263	.00229	-.00018	.00085	-.16947	.06199	-3.25983
.351	4.174	-.00036	-.07000	.05472	.12722	.00221	-.000172	.00361	-.07380	.04948	-1.49143
.350	6.017	-.000148	.01616	.04805	.13166	.00193	-.00069	.00380	.01103	.04948	.22296
.350	8.230	-.000331	.12118	.03679	.13049	.00187	-.00094	.00787	.1438	.05374	2.05205
.350	10.253	-.000301	.22536	.03981	.14427	.00216	-.00081	.00714	.21628	.07043	3.07085
.350	12.553	-.000353	.34724	.0253	.14934	.00229	-.00063	.00810	.35226	.09649	3.46430
.350	14.419	-.000266	.46340	.01636	.15072	.00398	-.00039	.00604	.44473	.13124	3.36871
.350	16.372	-.000159	.59524	.01250	.14619	.00275	-.00027	.00308	.56758	.11978	3.15717
.349	18.527	-.000221	.73359	.00561	.14915	.00224	-.00028	.00114	.69379	.23842	2.90999
.349	21.742	-.00145	.97533	.00139	.14141	.00257	-.00057	.00385	.90343	.36258	2.49720

RUN NO. 139/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.548	-.01089	-.39802	.06849	.13719	.00229	.00054	.00534	-.39458	.08612	-4.58192
.801	-.232	-.00245	-.27114	.07112	.13349	.00122	.00108	.00108	-.27085	.07122	-3.80326
.800	1.958	-.00073	-.15634	.06851	.13497	.00217	.00012	.00042	-.15559	.08312	-2.51270
.800	3.975	-.00069	-.04729	.06390	.13539	.00204	.00010	.00049	-.05161	.06047	-.85344
.800	6.258	-.00063	.07422	.05778	.13752	.00196	.00028	.00002	.06748	.06553	1.02978
.800	8.427	-.00143	.19395	.05574	.14039	.00143	.00079	.00012	.18359	.08356	2.19836
.800	10.694	-.00397	.32122	.05578	.14608	.00219	.00097	.00110	.30329	.11442	2.66813
.800	13.125	-.00382	.46766	.05614	.15192	.00341	.00094	.00107	.44469	.16087	2.75179
.800	15.390	-.00168	.59992	.05647	.15732	.00637	-.00120	.00120	.56343	.21365	2.63713
.800	17.473	-.00116	.74544	.05484	.15801	.00625	.00162	.00252	.69457	.27614	2.51530
.799	19.749	-.00227	.92376	.05175	.14418	.00528	-.00206	.00368	.85194	.36085	2.36093
.799	22.039	-.00116	1.07731	.04917	.13703	.00243	-.00151	.00104	.98013	.44983	2.17891

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LARC8TPT-684 (LA-51) (B1F1M1) (WIE1S1) (W1)

(RHV013)

## PARAMETRIC DATA

BETA =	.0000	ELEVTR =	-10.000
ATLRON =	.0000	BDFLAP =	-11.700
SPDBRK =	.0000		

RUN NO. 138/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
.900	-2.625	-.01231	-.41254	.08996	.16162	.00223	.00060	.00522	-.40798	.19876	-3.75113
		-.00276	-.26709	.09098	.15149	.00222	.00040	.00086	-.26670	.09213	-2.89469
	-1.248										
	2.069	.00326	-.12570	.08941	.14069	.00234	.00017	.00176	-.12885	.08481	-1.51920
	4.129	.00270	.00079	.08659	.13185	.00197	.00039	.00174	-.00341	.08592	-.06301
	6.792	-.00012	.16030	.08278	.12723	.00013	.00096	.00056	-.14939	.10116	1.47681
	9.212	-.00169	.31572	.08099	.11827	.00142	.00175	.00118	-.29888	.13549	2.28890
	10.914	-.00041	.41469	.08157	.11699	.00190	.00194	.00202	.39175	.15681	2.46992
	13.339	.00158	.57251	.08211	.11652	.00341	.00232	.00340	.53812	.21198	2.53859
	15.532	.00430	.71556	.08174	.11489	.00482	.00294	.00550	.66734	.27537	2.46895
	17.994	.00354	.86620	.08106	.12293	.00231	.00402	.00638	.79901	.34329	2.32867
	20.451	.00493	.98735	.08469	.13950	.00181	.00363	.00667	.89774	.41964	2.13933
	22.226	.00231	1.01767	.09414	.19449	-.00136	-.00324	-.00490	.91645	.47209	1.92079

RUN NO. 137/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
.981	-2.668	-.01204	-.41382	.13874	.17980	.00276	.00118	.00397	-.40692	.15785	-2.57784
		-.320	.00002	-.25449	.13431	.00070	.00284	.00135	-.25373	.13573	-1.86941
	1.981	1.98	.00377	-.14397	.13419	.00155	.00250	.00275	-.14721	.13064	-1.12679
	4.163	.00250	.02919	.13142	.12857	.00159	.00110	.00369	-.01957	.13319	.14694
	5.678	.00539	.19050	.12839	.11735	.00138	.00212	.00482	.17428	.14967	1.16441
	8.916	.00364	.34718	.12669	.10104	.00112	.00249	.00448	.32325	.17895	1.80635
	11.166	.00525	.50236	.12825	.08879	.00115	.00332	.00616	.46812	.22310	2.09776
	13.588	.00236	.65852	.12750	.09175	-.00050	.00404	-.00569	.61965	.27971	2.17957
	15.974	.00000	.81873	.12976	.08353	.00037	.00399	-.00687	.75141	.35016	2.14649
	18.644	.001783	1.00750	.12826	.06864	-.00040	.00426	-.00852	.91363	.44351	2.05954
	20.616	.01194	1.13526	.12572	.07065	.00170	.00526	-.01165	1.01829	.51740	1.96809
	22.888	.001883	1.26117	.12536	.07655	-.00055	-.00136	-.00581	1.11311	.60601	1.83682

## LARCBTPT-604 (LA-51) (B1F1M1) (WIE191) (V1)

(RHWD13)

RUN NO. 136/0

	BETA	CN	CA	CLM	CAL	CYN	CY	CL	CD	L/D
ALPHA	-.01296	-.33038	.15811	.14812	.00168	.00131	.00351	-.32293	.17284	-1.66841
1.200	-2.562	-.181	-.00389	-.17847	.15774	.12433	.00141	.00133	-.17797	.15831
1.200	-.181	-.00389	-.17847	.15774	.12433	.00141	.00012	-.00012	-.12419	
1.200	2.568	.00310	-.00706	.15382	.09870	.00152	.00098	-.00232	-.01394	.15335
1.200	4.518	.00273	-.11612	.15014	.08295	.00142	.00110	-.00232	.10393	.65438
1.200	6.765	.00086	.25590	.14720	.06982	.00145	.00138	-.00191	.23677	.17632
1.200	9.009	.00069	.40355	.14333	.05512	.00134	.00136	-.00183	.37577	.20541
1.200	11.508	-.00236	.56100	.14050	.03959	.00089	.00115	-.00039	.52169	.24960
1.199	13.996	-.00318	.72390	.14145	.02331	.00082	.00121	-.00012	.66733	.31212
1.200	16.258	-.00444	.85849	.13835	.01376	.00076	.00164	-.00206	.78543	.37316
1.200	18.577	-.00415	.98946	.13682	.00997	.00081	.00194	-.00391	.89432	.44491
1.199	21.860	.00452	1.10383	.13749	.01109	.00063	.00233	-.00453	.98252	.52154
1.199	23.135	.00502	1.21040	.13527	.01871	.00065	.00251	-.00498	1.15991	.59996

LARCBTPT-604 (LA-51) (B1F1M1) (WIE192) (V1)

(RHWD14)

RUN NO. 80/0

	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
ALPHA	-.00307	-.14569	.05414	.02131	-.00050	-.00040	.00687	-.14364	.05935	-2.42015
1.064	-2.064	-.00096	-.05537	.05574	.02350	-.00042	-.00034	.00235	.05535	.93276
1.064	-.020	-.00096	-.05537	.03479	.02725	-.00043	-.00034	-.00145	.05535	
2.025	2.348	-.00025	-.03479	.05448	.02725	-.00032	-.00027	.00301	.13042	.05568
4.064	3.449	-.00104	-.13427	.04961	.03002	-.00032	-.00027	.00482	.22740	.06714
6.113	3.500	-.00179	.23326	.04235	.03346	-.00037	-.00029	.00699	.32691	.336674
0.163	3.449	-.00090	.33426	.03431	.03902	-.00068	-.00087	.00285	.32691	.08142
10.236	3.449	-.00116	.44065	.02514	.04582	-.00039	-.00077	.00330	.42917	.44309
12.206	3.449	-.00169	.56257	.01140	.05046	-.00011	-.00065	.00281	.54577	.10395
14.344	3.449	-.00002	.60526	.01520	.04787	-.00175	.00037	-.00146	.66013	.10449
16.405	3.449	-.00112	.81051	.01196	.04776	-.00175	-.00091	.00174	.77444	.24039
18.467	3.449	-.00050	.94421	.01190	.04463	-.00119	-.00093	.00232	.89162	.31038
21.525	3.449	-.00071	1.06271	.01668	.04459	-.00164	-.00131	.00305	.98041	.38032

(RHWD15)

LAS1 TABULATED SOURCE DATA  
 LARC8TPT-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

PAGE 34

(RHV014)

PARAMETRIC DATA

BETA = .0000 ELEVTR = .0000  
 AILRDN = .0000 BDFLAP = -11.700  
 SPDBRK = .0000

RUN NO. 79/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.801	-2.322	-.31116	-.19662	.05832	.03989	-.00119	-.00015	.0627	-.19410	.0624	-2.93043
.801	-.105	-.00338	-.08322	.05942	.0104	-.00061	-.00016	.0203	-.08311	.05957	-1.39316
.801	2.105	.00249	.02583	.05795	.04289	-.00052	-.00046	.02369	-.00083	.05886	.40241
.800	4.315	.00447	.14924	.05300	.04072	-.00097	-.00033	.00033	-.00184	.06487	2.23155
.801	6.545	.00182	.27726	.05179	.03866	-.0006	-.00038	.00144	.00055	.08306	3.24518
.800	8.761	.00075	.39647	.05222	.03545	-.00038	-.00049	.00098	.00089	.08389	3.42769
.801	10.998	.00046	.52546	.05438	.04339	-.00044	-.00064	.00100	.00064	.05544	1.5363
.800	13.253	.00476	.64840	.05595	.04683	-.00349	-.00113	.00397	.00183	.020311	3.04423
.801	15.464	.00153	.77273	.05893	.04948	-.00170	-.00001	.00085	.0005	.026284	2.77376
.801	17.704	.00356	.92144	.06241	.04128	-.00120	-.00031	.00168	.00082	.033967	2.52841
.800	19.960	.00806	1.05806	.06384	.04207	-.00206	-.00058	.00056	.00272	.042120	2.30942
.800	21.826	.00929	1.10818	.06786	.04055	-.00061	-.00060	.00015	.00052	.047500	2.11265

RUN NO. 78/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	
.900	-2.377	-.01087	-.21742	.07259	.05582	-.00101	-.00012	.00524	-.21422	.08155	-2.62696	
.900	-.109	-.00011	-.08158	.07412	.04698	-.00012	-.00040	.00051	-.08144	.07428	-1.09639	
.899	2.125	.00206	.03794	.07386	.04513	-.00033	-.00034	.00060	.00051	.03521	.46765	
.900	4.393	.00438	.16421	.07275	.04288	-.00033	-.00030	.00076	.00015	.09517	1.85895	
.900	6.644	.00359	.29260	.07433	.03925	-.00001	-.00074	.00027	.00004	.028204	2.61997	
.900	8.941	.00617	.43108	.07537	.03373	-.00018	-.00143	.000462	.000412	.041416	2.92757	
.899	11.215	.00885	.56690	.07900	.02881	-.00036	-.000261	.000731	.00071	.08775	2.88700	
.899	13.464	.00857	.69593	.08250	.02383	-.00040	-.00030	.00080	.000760	.03760	.24227	2.71436
.900	15.743	.01183	.83623	.08737	.01407	-.00077	-.00015	.00102	.00116	.31098	2.51194	
.900	18.026	.01035	.96008	.09061	.01037	-.00056	-.00298	.00083	.00013	.38821	2.31865	
.900	20.237	.01327	1.07025	.09535	.03163	-.0005	-.00274	.00099	.00121	.45968	2.11281	
.899	22.166	.00352	1.10166	.08323	.00046	-.00060	-.00080	.00285	.00219	.098219	1.92955	

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## LASI TABULATED SOURCE DATA

PAGE 35

LARC8TP1-684 (LA-81) (B1F1M1) (WE192) (V1)

(RHWD14)

## PARAMETRIC DATA

BETA = .000  
 AILRDN = .000  
 SPDRNK = .000

RUN NO. 77/0

MACH	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-.00988	-.21572	.12502	.00355	-.00002	.00101	.00321	-.21031	.13392	-.1.57038
.981	-.00999	-.07117	.12615	.04712	-.00023	.00087	-.00055	-.07096	.12627	-.56198
.981	2.201	.00688	.12532	.03311	-.00031	.00081	-.00397	.06437	.12789	.50334
.981	4.513	.00609	.21618	.12203	.02442	-.00078	.00117	-.00404	.20591	1.48499
.981	6.813	.00666	.35533	.11985	.01359	-.00082	.00227	-.00556	.33860	.16116
.981	9.129	.00985	.50385	.12299	.00168	.00025	.00134	-.00001	.47796	.2.37356
.981	11.445	.00813	.65312	.12724	-.01104	-.00177	.00345	-.00757	.61489	.2.41789
.981	13.766	.00439	.01038	.13352	-.02653	-.00120	.00358	-.00552	.75522	.3.35970
.981	16.112	.00677	.96754	.13706	-.04008	-.00434	.00261	-.00610	.89150	.40117
.981	18.128	.01048	1.11196	.14174	-.0502	-.00310	.00363	-.00902	1.01013	.48598
.981	21.695	.01302	1.23991	.14115	-.04962	-.00302	.00374	-.01043	1.11002	.57022
.981	21.243	.01122	1.27408	.14087	-.04801	-.00292	.00414	-.01005	.1.13646	.59294
										1.91667

RUN NO. 76/0

MACH	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-0.1138	-.19332	.14427	.06749	-.00012	.00086	.00341	-.18714	.15220	-1.22961
1.200	-2.388	-.04667	.14331	.04088	.00043	.00073	-.00125	-.04651	.14336	-1.32442
1.200	-.065	.00108	.09895	.14115	.01585	.00026	.00053	-.00214	.09324	.64359
1.200	2.208	.00398	.00344	.24350	.00560	-.00057	.00061	-.00203	.23151	.1.45948
1.200	4.604	.00344	.00464	.37996	.13997	-.01980	.00147	.00016	.36026	.1.84884
1.200	6.941	.00464	.52193	.14151	-.03278	.00058	.00114	-.00331	.49133	.2.19747
1.200	9.271	.00510	.66212	.14319	-.04339	.00124	.00140	-.00279	.61973	.2.25357
1.200	11.616	.00302	.00379	.00303	.05362	-.00070	.00085	-.00248	.74438	.33415
1.200	13.979	.00785	.92960	.14572	-.05850	.00013	.00109	-.00440	.85143	.2.22768
1.200	16.206	.01024	.1.05024	.14601	-.05758	-.00007	.00106	-.00529	.94884	.40057
1.200	18.597	.01307	1.16791	.14127	-.05248	-.00038	.00127	-.00719	1.03945	.55169
1.200	20.915	.01597	1.24972	.14011	-.04046	-.00122	.00189	-.00805	1.09786	.61331
										1.79015

LARC/TPT-684 (LA-51) (B1F1M1) (WE1S2) (V1)

(RHV015)

## PARAMETRIC DATA

BETA =	.0000	ELEVTR =	-10.000
AILRDN =	.0000	BCFLAF =	-11.700
SPCBBK =	.0000		

RUN NO.	75/ 0	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
.349	-2.129	-.00305	-.36115	.05590	.11961	.00137	-.00017	.00645	.06927	-.18004
.349	-1.106	-.00033	-.27402	.05889	.12071	.00153	-.00002	.00069	.27391	-.61111
.349	1.947	-.00053	-.18629	.05888	.12502	.00134	-.00009	.00211	.05211	-.61962
.349	3.996	-.00084	-.08670	.05516	.12841	.00106	-.00006	.00264	.09034	-.84422
.348	6.032	-.00110	-.00559	.04932	.13341	.00116	-.00033	.00173	.00036	.000713
.349	8.094	-.00142	-.10920	.04251	.14039	.00146	-.00127	.00440	.05697	1.79395
.348	10.144	-.00175	-.21937	.03401	.14820	.00140	-.00087	.00256	.07036	2.84427
.349	12.201	-.00214	-.32257	.02572	.15314	.00170	-.00040	.00202	.09330	3.32083
.349	14.262	-.00250	-.45320	.02331	.14924	.00179	-.00117	.00153	.43349	1.3424
.349	16.324	-.00281	-.57943	.01947	.15253	.00111	-.00080	.00045	.55060	1.8155
.348	18.368	-.00312	-.69260	.01500	.15384	.00147	-.00110	.00278	.65259	2.32448
.348	20.442	-.00348	-.83166	.01438	.14734	.001492	-.00168	.00189	.77427	.30393

RUN NO. 74/ 0

RUN NO.	74/ 0	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
.800	-2.560	-.00992	-.40203	.06859	.14167	.00153	.00040	.00496	.08648	-.60877
.801	-3.65	-.00162	-.28023	.07038	.13618	.00143	.00024	.00061	.07216	-.87694
.800	1.847	-.00342	-.16876	.06925	.13669	.00115	-.00012	.00173	.06377	-.67997
.800	4.070	-.00405	-.04585	.06464	.13750	.00118	-.00039	.00178	.06122	-.82199
.800	6.291	-.00344	-.07538	.05979	.13902	.00128	.00013	.00204	.06837	.06769
.800	8.517	-.00168	.09967	.05857	.14025	.00195	.00051	.00151	.8879	.15760
.801	10.738	-.00223	-.32253	.06057	.14533	.00113	.00075	.00099	.30560	.11959
.800	12.983	-.00148	-.44024	.06118	.15891	.00129	.00087	.00182	.41546	.15755
.800	15.153	-.00085	.053897	.06305	.17010	.00133	.00065	.00153	.30375	.20174
.801	17.402	-.00374	.06855	.06727	.17183	.00126	-.00033	.00176	.61784	.26413
.800	19.666	-.00323	.082425	.06608	.16743	.00321	-.00109	.00178	.75393	.33961
.800	21.854	-.00348	.091661	.06834	.18612	.00298	.00057	.00271	.32530	.40463

## LA51 TABULATED SOURCE DATA

PAGE 37

LARC8PT-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

(RHVD15)

## PARAMETRIC DATA

BETA = .000 ELEVTR = -10.000  
 AILRDN = .000 BDFLAP = -11.700  
 SPCBRK = .000

RUN NO. 73/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
.900	-2.681	-.00976	-.42163	.09117	.16457	.00160	.00061	.-41691	.11079	-.76312	
.901	-.389	-.00051	-.27726	.09231	.15236	.00184	.00007	.-27663	.09418	-.23705	
.900	1.893	.00410	-.13895	.09081	.14113	.00172	-.00018	-.00176	.00618	-.64647	
.901	4.172	.00460	.00234	.08829	.13113	.00121	.00012	-.00234	.00823	-.04639	
.900	6.462	.00389	.00160	.08502	.12604	.00091	.00007	.-00310	.13114	1.00042	
.900	8.730	.00426	.00279	.08540	.12599	.00063	.00013	-.00356	.26287	2.07364	
.901	11.013	.00559	.0042610	.08716	.11222	.00144	.00012	-.00492	.40160	2.40553	
.899	13.255	.00236	.003866	.08875	.11379	.00025	.00017	-.00364	.50396	2.40106	
.900	15.525	.00451	.006945	.08989	.11244	.00144	.00024	-.00502	.62097	.235629	
.900	17.798	.00521	.001260	.09013	.11183	.00069	.000479	.73664	.35114	2.22458	
.900	20.024	.01341	.001183	.09354	.12845	.00228	.000331	-.01062	.82467	.400112	
.900	22.212	-.00082	.00268	.09413	.17533	.00111	.00129	-.00105	.85376	.45954	

RUN NO. 72/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
.980	-2.498	-.00509	-.40837	.13967	.18141	.00236	.00112	.00219	-.41190	.15733	2.55446
.981	-.279	.00178	-.25803	.13743	.15068	.00257	.00119	-.00230	-.25736	.13868	1.85575
.981	1.955	.00684	-.11318	.13590	.14025	.00199	.00098	-.00515	-.11775	.13196	-.89232
.980	4.180	.00826	.03000	.13384	.12522	.00132	.00097	-.00599	.02016	.13567	.14862
.980	6.409	.00605	.17525	.13206	.11163	.00051	.00191	-.00576	.15941	.15980	1.05713
.980	8.652	.00478	.33058	.13301	.09458	.00059	.00248	-.00569	.35681	.18122	1.69300
.980	10.897	.00419	.48694	.13591	.07779	-.00017	.00263	-.00552	.45247	.22552	2.00635
.979	13.129	.00498	.63297	.13877	.06563	.00001	.00349	-.00711	.58491	.27892	2.09701
.979	15.354	.00084	.77190	.13771	.05819	.00067	.00093	-.00903	.70805	.33660	2.10352
.980	17.584	.00121	.92223	.13703	.04515	.00040	.00379	-.01065	.83775	.401923	2.04715
.981	19.811	.00962	1.05246	.13540	.04369	-.00033	.00386	-.01043	.94428	.48410	1.55060
.980	22.025	.01224	1.16983	.13218	.04998	-.00015	.00338	-.01164	1.03489	.56124	1.84395

## LA51 TABULATED SOURCE DATA

PAGE 38

LARC8TP-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

(RHV015)

## PARAMETRIC DATA

BETA = .0000  
 AIRRN = .0000  
 SFDBRK = .0000

RUN NO. 71/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
1.200	-2.447	-.00806	.31619	.16371	.14342	.00112	.00120	-.00277	-.35891	.17706	-1.74464
1.200	-.195	.00009	.17428	.16280	.11757	.00106	.00113	-.00134	-.17372	.16339	-1.06320
1.200	2.051	.00422	.03205	.15973	.09474	.00110	.00085	-.00315	-.03774	.15848	-.23814
1.201	4.289	.00443	.10497	.15708	.07426	.00125	.00073	-.00312	.09293	.16449	.56496
1.201	6.540	.00622	.24085	.15488	.05770	.00144	.00120	-.00459	.22164	.18131	1.22246
1.200	8.786	.00258	.38463	.15310	.04040	.00069	.00120	-.00272	.00573	.21005	1.69829
1.200	11.037	.00192	.52313	.15016	.02832	.00094	.00116	-.00233	.48470	.24753	1.95816
1.200	13.281	.00149	.66275	.14801	.01644	.00114	.00116	-.00189	.61103	.29630	2.06217
1.200	15.541	.00582	.79106	.14632	.01077	.00144	.00132	-.00462	.72293	.35292	2.04844
1.200	17.744	.00697	.90955	.14347	.00816	.00159	.00127	-.00523	.82255	.41385	1.98755
1.200	19.962	.00896	1.02059	.14053	.01184	.00175	.00109	-.00594	.91130	.48051	1.89650
1.199	22.173	.01361	1.12437	.13649	.02209	.00279	.00127	-.00162	.98972	.55073	1.79709

LARC8TP-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

## PARAMETRIC DATA

BETA = .0000  
 AIRRN = .0000  
 SFDBRK = .0000

RUN NO. 120/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
.350	-2.144	5.02975	-.34680	.05258	.10753	.00257	.00222	-.07023	-.34459	.06552	.25922
.350	-.081	5.03540	-.25626	.05582	.11153	.00165	.00173	-.07430	-.25618	.05518	.4.55981
.350	1.980	5.03223	-.16965	.05595	.11630	.00046	.00145	-.07346	-.17148	.05346	.42554
.350	4.019	5.02235	-.06752	.01286	.12046	-.00118	.00124	-.07246	-.07105	.04807	-.1.48048
.349	5.074	5.00614	.02736	.04711	.12590	-.00273	.00098	-.07125	.02222	.04974	.44679
.349	8.134	4.98364	.13117	.13518	.13356	-.00488	.00196	-.07171	.12431	.95735	2.15773
.349	17.193	4.95447	23312	.03160	.13997	-.00513	.00235	-.07117	.22385	.07236	5.09365
.349	12.257	4.91996	.35045	.02344	.14298	-.00614	.00194	-.07212	.33749	.09731	3.46916
.349	14.358	4.87844	.48265	.02139	.13962	-.00731	.00379	-.07480	.46232	.14025	.29364
.349	15.403	4.83101	.60595	.01562	.13966	-.00899	.00436	-.07565	.57688	.18610	.09983
.349	18.478	4.77249	.00592	.01461	.14161	-.00951	.00438	-.07875	.68399	.23903	2.86153
.349	21.543	4.71917	.86591	.01493	.13923	-.00718	.00654	-.08521	.80912	.39847	2.62304

## PARAMETRIC DATA

BETA = .0000  
 AIRRN = .0000  
 SFDBRK = .0000

## LA51 TABULATED SOURCE DATA

PAGE 39

LARC8TFT-684 (LA-51) (B1F1W1) (W1E1S2) (V1)

(RHVN16)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 ALRCON = .000 BDFLAP = -11.700  
 SPCBRK = .000

RUN NO. 119/0

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	CL	CD	L/D
.800	-2.580	5.14277	-.39001	.06520	.13417	.00533	.00497	-.39467	.00005	-4.75200	
.800	-.327	5.15074	-.27007	.06816	.12848	.00263	.00453	-.08755	.06970	-3.86943	
.801	1.069	5.14785	-.15587	.06780	.12920	.00050	.00362	-.00630	.06667	-2.52091	
.801	4.103	5.13376	-.03866	.06357	.13086	-.00128	.00310	-.00370	.04311	.06664	
.800	6.334	5.11545	.08823	.05772	.13340	-.00469	.00371	-.08437	.08132	.06710	
.801	8.562	5.08753	.21340	.05674	.13622	-.00484	.00407	-.108356	.21257	.08787	
.801	10.817	5.05075	.33466	.05876	.14347	-.00416	.00421	-.08225	.12052	.230524	
.800	13.036	5.01278	.45197	.05826	.15148	-.00493	.00460	-.08434	.31768	.12052	
.800	15.243	4.96556	.55218	.06040	.16739	-.0092	.00299	-.08308	.51687	.26678	
.800	17.516	4.91634	.69337	.06092	.16788	-.01092	.00335	-.08080	.64288	.26678	
.801	19.789	4.86496	.83749	.06152	.16971	-.010715	.00436	-.09715	.76720	.34443	
.800	22.028	4.80448	.96642	.06091	.16932	-.00512	.00677	-.10650	.87303	.41694	

RUN NO. 118/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.670	5.17175	-.401829	.08626	.15190	.00732	.00092	-.00062	-.40362	.10519	-3.83917
.901	-.357	5.18175	-.28324	.09010	.14011	.00422	.00495	-.09266	-.26267	.09173	-2.86343
.901	1.318	5.18118	-.12319	.08937	.12898	.00175	.00461	-.09339	-.12652	.08820	-1.48032
.901	4.216	5.16834	.02172	.08600	.12096	-.00070	.00386	-.09165	.01534	.08737	.17558
.899	6.491	5.14494	.15138	.08265	.11973	-.00252	.00363	-.08940	.14107	.09623	.1.42162
.901	8.799	5.11493	.29441	.08271	.11416	-.00254	.00308	-.08748	.27830	.12877	.2.19529
.901	11.083	5.07694	.43718	.08370	.10772	-.00447	.00189	-.06492	.41233	.16618	.2.48485
.901	13.351	5.03226	.56308	.08446	.10661	-.00695	.00128	-.08227	.52636	.21220	.2.48997
.901	15.618	4.96932	.68033	.08576	.10004	-.00845	.00052	-.08650	.63903	.26790	.2.38829
.901	17.913	4.91285	.81735	.08646	.11540	-.00923	-.00013	-.09247	.75114	.33366	.2.25121
.901	20.159	4.89612	.91851	.08897	.13918	-.00595	.00051	-.10293	.83158	.41016	.2.07062
.901	22.344	4.81360	.97447	.09454	.18772	-.00314	.00371	-.10103	.06537	.45791	.1.88986

## LA51 TABULATED SOURCE DATA

LARC8PT-684 (LA-51) (B1F1M1) (WIE1S2) (V1)

(RHVN16)

## PARAMETRIC DATA

BETA = 5.0000 ELEVTR = -10.000  
 AILRON = .0000 BDFLAP = -11.700  
 SPDBRK = .0000

RUN NO. 117/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.960	-2.498	5.14770	-.39363	.13950	.16683	.00407	.00842	-.00947	-.38717	.15633	-2.47354
.980	-.254	5.15659	-.24623	.13830	.14566	.00055	.00804	-.10141	-.24562	.13938	-1.76217
.980	1.986	5.15209	-.09882	.13599	.12076	-.00171	.00724	-.00663	-.10347	.13248	-7.86702
.979	4.235	5.13695	.05334	.13246	.11431	-.00363	.00612	-.0027	.04342	.13603	.31916
.979	6.470	5.11384	.19440	.13191	.10457	-.00454	.00637	-.00367	.17841	.15198	1.17388
.979	8.727	5.08188	.34527	.13174	.09146	-.00504	.00663	-.00573	.32129	.18263	1.75951
.979	10.971	5.03829	.50135	.13421	.07329	-.00689	.00455	-.00878	.46665	.22717	2.05419
.979	13.211	4.99518	.64395	.13588	.06797	-.00930	.00346	-.00871	.59855	.27945	2.13225
.979	15.451	4.95166	.79551	.13347	.05552	-.00684	.00370	-.00861	.73121	.34037	2.14714
.979	17.684	4.89704	.92549	.13192	.05332	-.00776	.00158	-.00846	.84168	.40682	2.06892
.979	19.886	4.83011	1.04380	.12976	.06173	-.01090	-.00217	-.00715	.93741	.47708	1.96492
.979	22.081	4.77225	1.14734	.12731	.07568	-.01149	-.00119	-.00890	1.01533	.54927	1.84849

RUN NO. 116/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.436	5.17126	-.30521	.16352	.13512	-.00293	.00936	-.10126	.29798	.17634	-1.68982
1.200	-1.175	5.17192	-.16396	.16174	.11044	-.00113	.00755	-.09714	-.16347	.16223	-1.07759
1.200	2.571	5.16593	-.02157	.15906	.08767	-.00419	.00560	-.09555	-.02731	.15818	-1.17263
1.200	4.332	5.14819	.11688	.15560	.06769	-.00439	.00412	-.08833	.10479	.16399	.63902
1.200	6.570	5.12277	.25013	.15292	.05363	-.00450	.00303	-.08397	.20799	.18054	1.27946
1.200	8.836	5.09807	.39381	.15155	.03842	-.00573	.00221	-.07915	.35586	.21025	1.74515
1.199	11.109	5.05944	.53364	.15019	.02655	-.00804	.00137	-.07690	.49470	.25020	1.97723
1.200	13.356	5.00829	.66893	.14718	.01671	-.00778	.00101	-.07551	.61684	.29772	2.07187
1.200	15.617	4.96196	.79308	.14429	.01234	-.00691	.00138	-.07622	.72496	.35246	2.05685
1.200	17.842	4.90505	.91155	.14151	.01219	-.00639	-.00361	-.07586	.82335	.41399	1.99123
1.200	20.058	4.86188	1.02204	.13804	.01849	-.00619	-.00617	-.07172	.92271	.48020	1.90169
1.200	22.295	4.76999	1.12358	.13188	.03103	-.00612	-.00906	-.06855	.96955	.54829	1.80479

## LA51 TABULATED SOURCE DATA

LARC01PT-684 (LA-51) (02F1M1) (W1E1SD) (V1)

(RHVN17)

PARAMETRIC DATA

BETA =	.0000	ELEVTR =	.0000
AIRCRN =	.0000	BDFLAP =	-11.700
SPDBRK =	.0000		

RUN NO.	60/ 0									
MACH	ALPHMA	BETA	CN	CA	CLM	CLB	CYN	CL	CD	L/D
.349	-2.039	-.00240	-.05329	.05407	.05138	.00261	.00222	-.15127	.05948	-2.54211
.350	.050	-.00077	-.06135	.05538	.03105	.00276	-.00123	-.06144	.0528	-1.11127
.349	4.140	.00013	1.2710	.04814	.02886	.00254	-.00026	.12329	.05719	2.15598
.349	6.208	-.00077	.22658	.03963	.02330	.00216	-.00016	.22096	.06390	3.45197
.351	6.769	-.00167	.35272	.02585	.01255	.00280	-.00021	.00370	.07932	4.34011
.350	12.362	-.00037	.48519	.01168	.00251	.00235	.00013	.00063	.47338	.10794
.349	12.750	-.00003	.56470	.00544	.00237	.00387	-.00156	.54957	.12993	4.22982
.350	14.694	-.00067	.68232	.01697	.01134	.00545	.00146	.00177	.65024	.17982
.350	16.597	.00048	.80020	.01671	.00122	.00453	.00128	.00136	.76494	.23501
.349	18.410	.00143	.91436	.00110	-.00692	.00329	.00059	-.00376	.86721	.29935
.349	20.511	.00292	1.04537	-.00365	-.01396	.00493	.00221	-.00891	.98138	.36236

RUN NO.	59/ 0									
MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CL	CD	L/D
.801	-2.331	-.00672	-.20895	.05887	.05165	.00286	.00061	-.21638	.06732	-3.06580
.802	-.110	.00180	-.09660	.06025	.04929	.00307	-.00114	-.09619	.06044	-1.59653
.802	.380	.00085	-.06898	.05992	.01904	.00287	.00066	-.00122	-.06938	.05946
.803	2.303	.00537	.02809	.05763	.04703	.00289	.00050	-.00351	.02575	-1.16681
.801	4.201	.00551	.12894	.05393	.04255	.00234	.00050	-.00359	.12464	.06323
.801	6.666	.00675	.26937	.04931	.03487	.00298	-.00155	-.00548	.26182	.08024
.801	8.671	.00206	.36825	.04901	.03111	.00285	-.00142	-.00276	.35665	.10396
.801	10.885	.00249	.48448	.05212	.02585	.00252	-.00183	-.00348	.46593	.14257
.801	13.245	.00250	.61570	.05498	.01805	.00377	-.00144	-.00305	.58673	.19459
.801	15.341	.00763	.75158	.05835	.00444	.00632	.00129	-.00579	.70917	.25505
.801	17.534	.01268	.87833	.05779	-.00395	.00711	.00164	-.00799	.82012	.31972
.799	20.015	.01280	1.01591	.05921	-.00129	.00506	.00107	-.00860	.92469	.39992
.801	21.799	.01407	1.05501	.06294	.01841	.00193	.00155	-.01115	.95694	.45052

## LAS1 TABULATED SOURCE DATA

LARC8TFT-684 (LA-51) (B2F1M1) (W1E1S0) (W1)

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(RHWD17)

## PARAMETRIC DATA

BETA = .000  
 ALTRON = .000  
 SPCBRK = .000

RUN NO. 56/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.901	-2.446	-.00614	.23598	.07423	.06986	.0025	.00144	.00130	.23259	.00425	-2.76084
.901	-1.521	.00464	-.09240	.07518	.05406	.00327	.00122	.00131	.09224	.07557	-1.22374
.901	1.111	.00492	-.08155	.07468	.05337	.00305	.00113	.00113	.05322	.07452	-1.09651
.901	2.141	.00609	.02803	.07490	.04935	.00197	.00052	.00051	.05222	.07590	.33226
.901	4.427	.00595	.15768	.07306	.04987	-.00535	.00056	.00056	.00386	.00157	.08501
.901	6.723	.00716	.28593	.07282	.03336	.00156	.00012	.00012	.00087	.27544	.00579
.901	8.888	.00511	.39947	.07439	.02556	.00115	.000275	.000275	.00162	.38158	.13521
.901	11.077	.00766	.52616	.07523	.01619	.000325	.000381	.000381	.00019	.51132	.17785
.901	13.327	.01066	.66556	.09172	.01268	.00375	.000327	.000327	.00080	.62881	.23294
.901	15.532	.01008	.79857	.08461	.02858	.00256	.000350	.000350	.00079	.74675	.29535
.901	17.817	.00997	.91726	.09610	.03196	.00226	.00164	.00164	.00089	.84696	.36253
.901	20.157	.02886	1.02760	.09019	.01703	-.000917	.00304	.00304	.00131	.93358	.43878
.901	22.090	.01174	1.05026	.08890	.01929	-.00758	-.000505	-.000505	.000505	.93966	.47748

RUN NO. 57/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.880	-2.294	-.21259	.12567	.07059	.00398	.00165	.00129	.00129	-.21739	.13478	-1.54677
.900	-1.108	.00181	-.07838	.12619	.05187	.00317	.00125	.00125	-.07815	.12633	-.61858
.900	2.043	.00640	.05899	.12529	.03335	.00242	.00118	.00118	.00513	.05449	.42798
.979	4.237	.00705	.16925	.12280	.01969	.00214	.00181	.00181	.00623	.17966	1.31645
.980	6.681	.00725	.33780	.12083	.00473	.00217	.00297	.00297	.00770	.32144	.15931
.979	8.839	.01067	.46641	.12024	.01156	.00290	.00382	.00382	.01074	.42339	.19549
.979	11.734	.00896	.60726	.12430	-.03267	.00270	.00366	.00366	.00956	.57225	.2.40212
.979	13.093	.00951	.73454	.12766	-.04973	.00329	.00387	.00387	.01018	.66654	.2.36166
.980	15.471	.01438	.87789	.13126	-.06986	.00493	.01454	.01454	.01442	.81151	.35968
.979	17.597	.01010	1.01949	.13501	-.08924	.00400	.01082	.01082	.01097	.43690	.2.13084
.979	19.799	.01153	1.15623	.13652	-.10517	-.00056	.01387	.01387	.01164	.52009	.2.07282
.979	22.614	.00915	1.26472	.13534	-.10236	-.00226	.00271	.00271	.00885	.1.12178	.59954

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## LA51 TABULATED SOURCE DATA

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LARC8TP7-684 (LA-51) (B2F1M1) (WIE1S0) (V1)

(RHW#17)

## PARAMETRIC DATA

BETA	=	.0000	ELEVTR =	.0000
AILRDN	=	.0000	BDFLAP =	-11.700
SPDBRK	=	.0000		

RUN NO. 56 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
1.199	-2.321	-.00064	-.19843	.14231	.07585	.00188	.00123	-.19250	.15023	-1.28139
1.199	-2.070	-.00026	-.05293	.14189	.04395	.00218	.00115	-.05276	.14196	-.37166
1.200	.132	-.00012	-.03979	.14153	.04089	.00227	.00124	-.04112	.14144	-.28364
1.200	2.690	.00329	.11933	.14027	.01905	.00140	.00088	-.00270	.11261	.14572
1.200	4.364	.00266	.22167	.14026	.01964	.00112	.00073	-.01221	.21036	.15672
1.200	6.499	.00460	.34564	.13688	.02830	.00285	.00087	-.00338	.32770	.17711
1.200	8.953	.00275	.48180	.13714	.01335	.00132	.00113	-.01273	.45459	.21944
1.200	11.231	.00173	.62420	.13802	.06422	.00105	.00095	-.00199	.58534	.25716
1.199	13.274	.00282	.75213	.13847	.08302	.00138	.00147	-.00317	.70024	.30747
1.199	15.627	.00160	.88265	.14060	.09809	.00161	.00138	-.00500	.81216	.37316
1.199	17.744	.00772	.99162	.14165	.10728	.00184	.00103	-.00535	.90121	.43732
1.199	20.002	.00996	1.09677	.14216	.11026	.00110	.00131	-.01696	.98202	.50665
1.199	22.213	.01149	1.19557	.14330	.10922	.00191	.00153	-.00155	1.05379	.58188

LARC8TP7-684 (LA-51) (B2F1M1) (WIE1S0) (V1)

(RHW#18)

## PARAMETRIC DATA

BETA	=	.0000	ELEVTR =	-10.000
AILRDN	=	.0000	BDFLAP =	-11.700
SPDBRK	=	.0000		

RUN NO. 55 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
.352	-2.190	-.00261	-.35793	.05579	.12001	.00234	.00111	-.35554	.116943	-.512120
.353	-1.134	-.00252	-.26433	.05678	.11617	.00222	.00036	-.26449	.05540	-.44776
.353	1.890	-.00107	-.17516	.05614	.12095	.00247	.00056	-.04440	.05333	-.3.30233
.352	4.016	-.00153	-.08165	.05130	.12056	.00246	.00043	-.0357	.04643	-.1.76435
.351	6.268	-.00247	.02412	.01662	.12151	.00239	.00028	.00536	.01088	.04897
.351	8.121	-.00184	.11161	.03789	.12257	.01246	-.00048	.01031	.11531	.1.97616
.351	10.067	-.00264	.20697	.02761	.12247	.01282	-.0007	.01552	.19805	.06336
.351	12.366	-.00191	.32968	.01718	.11798	.01218	.00056	.01122	.31886	.08139
.350	14.205	-.00163	.43359	.01358	.11027	.01206	.00143	.01012	.41931	.12015
.350	16.253	-.00064	.56271	.01138	.09942	.01390	.00070	.53794	.16041	.3.10080
.351	18.304	-.00117	.69270	.00377	.09115	.01413	.00017	-.00043	.65647	.22113
.351	21.406	.00151	.08269	.01437	.08197	.01496	-.00171	-.00522	.77455	.28712

## LAS1 TABULATED SOURCE DATA

LARC8TFT-680 (LA-51) (B2F1M1) (WE160) (V1)

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(RHWD18)

## PARAMETRIC DATA

BETA	=	.0000	ELEVTR =	-10.000
ALFFON	=	.0000	BDFLAP =	-11.710
SPCERK	=	.0000		

RUN NO. 54/5

MACH	ALPHA	BETA	CN	CA	CLM	CL	CY	CD	L/C
.801	-2.644	-.01183	.408891	.000217	.14768	.000133	.000371	.000702	-4.64755
.801	-3.395	-.00287	.28046	.000833	.13718	.00175	.00113	.01716	-3.90165
.801	2.007	.00070	.15553	.00025	.13350	.00178	.000217	.00276	-2.51462
.801	3.585	.00273	.05250	.00025	.13116	.000217	.00046	.00202	-0.90457
.801	5.186	.00146	.06671	.00012	.12653	.00178	.00086	.00179	.05519
.801	6.511	-.00183	.19633	.00529	.12161	.00145	.00121	.00374	2.22104
.801	19.717	-.00140	.30155	.05774	.12045	.00163	.00146	.00091	.29050
.801	12.833	-.00169	.45620	.08066	.12341	.00137	.00092	.00011	.38266
.801	15.027	.00262	.52190	.06312	.12076	.00331	.00053	.00174	.46572
.801	17.340	.00175	.65312	.00269	.11617	.00665	.00149	.00432	.61475
.801	19.568	.00145	.78675	.06618	.11144	.00832	.00056	.00507	.72160
.801	21.693	.00030	.89675	.00058	.06279	.00058	.00131	.00197	.81053
									.38981

RUN NO. 53/0

MACH	ALPHA	BETA	CN	CA	CLM	CL	CY	CD	L/C
.899	-2.688	-.01152	.41950	.00103	.17059	.00239	.00431	.01476	.11060
.899	-4.431	-.00166	.28070	.00209	.15572	.00299	.00067	.02799	-3.75006
.899	1.794	.00580	-.14287	.00068	.14093	.00322	.00046	.00013	-2.91230
.899	3.995	.00060	-.00715	.00864	.12556	.00225	.00057	.00283	-1.60025
.899	6.348	.00438	-.13871	.08365	.11170	.00116	.00356	.01317	.08594
.899	8.575	.00743	.06897	.00043	.10201	.00043	.00117	.00046	-1.1326
.899	10.897	.00212	.40303	.00061	.08287	.00109	.00024	.00067	.09847
.899	12.871	.00436	.50940	.00040	.07081	.00199	.00195	.00148	.13064
.899	15.351	.00065	.64661	.00045	.06007	.00167	.00139	.00459	.25454
.899	17.462	.00082	.75636	.00080	.05740	.00174	.00091	.00512	.35976
.899	19.853	.00229	.87069	.00177	.07456	-.00031	.00284	.01614	.78812
.899	22.014	.00230	.91844	.00058	.11050	-.00402	.00143	.01326	.43580

LARC/TPT-684 (LA-51) (B2F1M1) (ME139) (V1)

(RHV018)

## PARAMETRIC DATA

BETA = .000 ELEVTR = -10.000  
 AIRRON = .000 ADFLAP = -11.700  
 SPDRK = .000

RUN NO. 52 / 0

ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.460	-.00616	-.39654	.13927	.10127	.00162	-.39012	.15636	-.249506		
.460	-.2484	-.24697	.13680	.15513	.00142	-.00233	.24636	.13789	-.178662	
.460	-.254	-.10767	.13542	.13598	.00244	-.00140	.00462	.11219	.31170	-.85100
.980	1.338	.00546	.23914	.15230	.11430	.00169	.00198	.00271	.02941	.21814
.980	4.174	.00564	.16510	.13659	.00196	.00113	.00248	.00651	.16948	.12666
.980	6.396	.00619	.32882	.13116	.07336	.00135	.00246	.00458	.30346	.17669
.980	6.624	.00296	.47427	.13551	.04798	.00072	.00275	.00637	.40170	.22038
.980	10.835	.00370	.60655	.13476	.01829	.00343	.00800	.56238	.26806	.09172
.979	13.046	.00674	.73819	.13594	.02216	.00327	.00235	.67643	.32534	.07913
.980	15.252	.00920	.87763	.13530	.06222	.00348	.00187	.79640	.39273	.02260
.980	17.488	.01680	.10809	.13619	-.00042	.00103	.00263	.00840	.46977	.93372
.980	19.693	.00557	.13861	.13252	-.01722	-.00280	.00147	.00322	.00729	.84094
.980	21.872								.54716	

RUN NO. 51 / 0

ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-.01903	-.31158	.16207	.14629	.00202	.00158	.00265	.30441	.17316	-.173786
1.200	-.229	-.00633	.16993	.16058	.00161	.00147	.00141	.16929	.16126	-.04961
1.200	2.026	.01410	-.03020	.15758	.00785	.00221	.00131	.00361	.03575	.15641
1.200	4.287	.00357	.11209	.15458	.06104	.00124	.00118	.00320	.10022	.16253
1.200	6.493	.01399	.24212	.15159	.04067	.00120	.00157	.00366	.22342	.17799
1.200	8.746	.01372	.37526	.14807	.02237	.00099	.00156	.00372	.34638	.20341
1.200	11.965	.01213	.51055	.14529	.00484	.00191	.00170	.00301	.47351	.23991
1.199	13.219	.01156	.65040	.14607	-.01521	.00139	.00197	.00309	.59976	.29094
1.199	15.431	.00371	.77478	.14397	-.02971	.00123	.00175	.00339	.70854	.34494
1.199	17.664	.01443	.89098	.14180	-.03712	.00023	.00141	.00411	.80539	.40424
1.200	19.053	.01896	.99653	.13761	-.04152	.00158	.00161	.00698	.89057	.46786
1.200	22.038	.01035	1.09177	.13507	-.01951	.00128	.00200	-.02044	.96132	.53485

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## LA51 TABULATED SOURCE DATA

PAGE 46

LARC8TPY-684 (LA-51) (B2F1M1) (WIE1SD) (V1)

(RHV019)

BETA = 5.000  
ALRCON = .0000  
SFDBRK = .0000

RUN NO. 105/0

MACH	ALPHA	BETA	CN	CA	CLH	CEL	CYN	CY	CL	CD	L/C
.347	-2.332	5.02920	-.34745	.05318	.11503	.00087	.00242	-.01227	.06277	.012955	
.348	-.048	5.03571	-.25031	.05619	.10916	-.00064	.00257	.037646	.05640	-.423743	
.348	2.158	5.03155	-.15241	.05660	.11188	-.00193	.00172	-.07410	.05082	-.03913	
.348	4.151	5.02112	-.05852	.05274	.11363	-.00305	.00148	-.07215	.04836	-.128582	
.349	6.184	5.00577	.03383	.04593	.11410	-.00420	.00166	-.01720	.02869	.04931	.03084
.349	8.333	4.98229	.03873	.03533	.11505	-.00560	.00204	-.017421	.03215	.05507	.2.39983
.349	10.356	4.95295	.02380	.02438	.11224	-.00571	.00183	-.017284	.02561	.06601	3.41774
.349	22.304	4.92031	.04205	.01358	.11353	-.00519	.00206	-.017053	.03131	.08616	3.34379
.349	14.409	4.87949	.04603	.01058	.10867	-.00521	.00305	-.017308	.04777	.12597	3.55434
.349	16.408	4.83329	.05172	.00912	.09846	-.00518	.00397	-.00848	.05548	.17298	3.21127
.349	18.506	4.78013	.71008	.00181	.08894	-.00554	.00605	-.00834	.06278	.22711	2.96241
.349	21.893	4.67925	.93933	-.01244	.07158	-.00463	.00561	-.00558	.08724	.33867	2.58730

RUN NO. 104/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/C
.800	-2.482	5.14265	-.39053	.066670	.13841	.00323	.00505	-.0825	-.38728	.08355	-.4.63323
.800	-.347	5.14920	-.26674	.06881	.12921	.00185	.00462	-.0879	-.26633	.07039	-.3.78378
.801	-.132	5.14951	-.25688	.06892	.12883	.00096	.00450	-.08370	-.25672	.06951	-.3.63319
.801	1.858	5.14570	-.15406	.06801	.12537	-.00071	.00400	-.08557	-.15618	.06298	-.2.48001
.800	4.148	5.13520	-.02996	.06290	.12162	-.00213	.00327	-.08888	-.05445	.06057	-.55646
.801	6.569	5.11343	.09987	.05556	.11673	-.00425	.00369	-.08446	.02666	.06662	1.39381
.801	8.531	5.08799	.20977	.05320	.11463	-.00416	.00354	-.08314	.09956	.08373	2.38332
.801	10.873	5.05265	.32731	.05603	.11553	-.00351	.00294	-.08226	.31085	.11677	2.66223
.801	13.224	5.01069	.43689	.05905	.11908	-.00489	.00160	-.08195	.41179	.15742	2.61553
.801	15.347	4.97201	.54721	.06093	.11490	-.00318	.00108	-.08451	.51157	.20358	2.51298
.801	17.938	4.91683	.70992	.05747	.10242	-.00101	.00206	-.08862	.65772	.27332	2.45645
.799	20.052	4.85720	.83641	.05488	.0946	-.00062	.00489	-.08633	.76689	.35834	2.26564
.799	21.870	4.79204	.87683	.05971	.12197	-.01068	-.00919	-.07835	.75148	.38204	2.17176

## LAS1 TABULATED SOURCE DATA

PAGE 47

LARC61PT-684 (LA-51) (B2F1M1) (WAE150) (V1)

(RHV119)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 AILRDN = .000 BDFLAP = -11.700  
 SPDBRK = .000

RUN NO. 103 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
.893	-2.508	5.17252	.396031	.08604	.15733	.00637	.00371	-.39226	.10530	-3.72538
.900	-.350	5.16234	-.26647	.0974	.14277	.00385	.00495	-.26539	.09442	-2.87718
1.946	5.18161	-.12273	.00919	.12662	.00185	.00031	-.09332	-.12558	.0097	-1.47911
.899	4.286	5.16941	.02228	.00515	.11250	.00009	-.00009	-.09265	.01585	.00550
.900	6.570	5.14795	.15417	.06222	.10597	-.00097	.00384	-.09138	.14372	.00662
0.768	5.11541	.28151	.00104	.09571	-.01269	.00258	-.00702	.26587	.12300	2.16156
.901	11.035	5.08604	.41904	.08230	.07537	-.00337	.00199	-.08781	.39554	.16399
.899	13.365	5.04567	.54179	.08284	.06725	-.00324	-.00160	-.08700	.50797	.20504
.900	15.657	5.00302	.66469	.08220	.08902	-.00159	-.00134	-.08831	.61776	.25503
.899	17.862	4.94981	.77511	.08246	.05893	-.00302	-.00042	-.08576	.7126	.31623
.899	20.086	4.87710	.86362	.08745	.07926	-.00633	-.01491	-.07464	.78105	.37072
.899	22.962	4.74051	.91635	.09564	.13310	-.01811	-.00235	-.04454	.80644	.44554

RUN NO. 102 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
.980	-2.384	5.15173	-.38681	.14052	.16921	.00335	.00847	-.10102	-.38063	-2.43232
.981	-.218	5.15733	-.24407	.13918	.14710	.00161	.00807	-.10183	.24554	.14011
.981	2.018	5.15283	-.09586	.13650	.12604	-.00154	.00758	-.10045	-.10062	.13344
.981	4.326	5.13662	.05235	.13328	.10666	-.00268	.00697	-.09698	.04215	.30799
.981	6.586	5.11361	.19484	.13150	.09042	-.00238	.00694	-.09477	.17653	.11248
.981	8.753	5.06441	.33579	.13251	.07177	-.00229	.00630	-.09191	.31171	.18216
.981	11.055	5.04411	.49068	.13552	.04697	-.00246	.00427	-.08672	.45597	.22513
.981	13.277	5.00610	.62668	.13390	.03193	-.00179	.00215	-.08650	.57918	.27424
.981	15.578	4.95864	.76627	.13215	.02034	-.00062	-.00078	-.08537	.71263	.33308
.981	17.623	4.90704	.80308	.13037	.01081	-.00517	-.00284	-.08340	.80293	.39185
.981	20.523	4.84179	.912998	.13169	-.00276	-.00416	-.00845	-.02263	.47641	.1.93669
.981	22.204	4.76894	.1.13546	.12947	-.00192	-.00725	-.00974	-.07658	1.01233	.54897

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## LA31 TABULATED SOURCE DATA

PAGE 49

LARC8TP7-684 (LA-51) (B2F1M1) (W1E1S0) (V1)

(RHV019)

## PARAMETRIC DATA

BETA = .5,000  
AILRON = .5,000  
SFDBRK = .5,000

RUN NO. 101/0

WACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.259	-2.353	5.17074	-.30392	.16189	.13931	-.00293	.00929	-.10062	.29631	.17422	-.170075
1.290	-.327	5.17205	-.15403	.56017	.10882	-.00371	.00768	-.09759	.15400	.16024	-.96136
1.290	2.638	5.16377	-.91433	.15679	.08114	-.00315	.00581	-.03295	.0214	.15613	-.12693
1.290	4.349	5.14725	.11551	.15382	.05915	-.00288	.00416	-.08618	.10352	.16213	.63846
1.290	6.321	5.12238	.24890	.15195	.04005	-.00258	.00513	-.08420	.22983	.17874	.28589
1.290	9.194	5.08901	.40414	.14878	.01924	-.00328	.00299	-.08320	.3517	.21144	.77438
1.199	11.227	5.05468	.52542	.14604	.00425	-.00478	.00156	-.08046	.48693	.25554	.90311
1.200	13.524	5.01825	.65973	.14435	.01128	-.00215	.00146	-.08432	.50571	.29440	.96066
1.200	15.567	4.27501	.77363	.14114	.02317	-.00197	.00229	-.08382	.70737	.34350	.95825
1.200	17.564	4.91921	.09395	.13836	.03261	-.0012	.00412	-.08134	.60591	.159158	
1.200	20.084	4.85368	1.00126	.13661	.03574	-.00327	.001848	-.07591	.89346	.47213	.86240
1.199	22.366	4.76399	1.19341	.13410	.03429	-.00323	.00173	-.07512	.96916	.54426	1.70170

LARC8TP7-684 (LA-51) (B2F1M1C3) (W1E1S1) (V1)

(RHV020)

## PARAMETRIC DATA

BETA = .000  
AILRON = .000  
SFDBRK = .000

RUN NO. 45/0

WACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.351	-2.370	-.00208	-.16420	.05502	.03199	-.00135	.00140	-.00712	-.16210	.06091	-.266128
.351	-.025	-.00197	-.07483	.05626	.03866	-.00153	-.00173	.00483	-.07460	.05629	-.132884
.351	2.042	-.00151	.01654	.05554	.04742	-.00184	.00168	.00385	.01455	.05609	.25933
.350	4.085	-.00206	.12012	.05134	.05611	-.00151	-.00331	.00457	.11616	.05977	1.94358
.351	6.138	-.00252	.22175	.04420	.06505	-.00181	-.00086	.00612	.21575	.06765	3.18915
.351	8.174	-.00188	.31383	.03464	.07134	-.00219	-.00109	.00511	.37572	.07791	3.87426
.351	10.237	-.00212	.41697	.02297	.07926	-.00177	-.00131	.00587	.40625	.09670	4.20595
.350	12.294	-.00243	.53228	.01064	.08623	-.00199	-.00134	.00468	.51781	.12374	4.18472
.350	14.353	-.00061	.65267	.00735	.08759	-.00247	-.00154	.03048	.16891	.373255	
.350	16.058	-.00160	.76157	.00417	.09408	-.00150	-.00184	.02938	.21913	.32848	
.351	18.470	-.00111	.88262	-.00535	.10242	-.00355	-.00280	.03885	.2754	.375544	
.351	21.517	.00238	-.01528	-.00453	.11025	-.00347	-.0024	.03680	.33425	.85263	

## LAS1 TABULATED SOURCE DATA

LARC/TPT-604 (LAS-51) (E2F1M1C3) (WIE1SH) (V1)

PAGE 49

(RH40020)

## PARAMETRIC DATA

BETA = .000  
ALRDN = .000  
SPRBRK = .000

RUN NO. 44/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.313	-.01035	.21157	.06029	.05352	.00128	.00022	.00040	.00096	.00078	-3.03789
.800	-.124	-.00268	.10339	.06169	.05919	.00144	.00014	.00130	.00327	.00189	-1.66873
.805	2.092	.00112	.00905	.00829	.06771	.00155	-.00006	.00054	.00604	.00558	.11292
.805	4.329	.00215	.13244	.05742	.07204	.00149	-.00003	.00115	.02773	.00725	1.89924
.805	6.544	.00182	.25645	.05575	.07280	.00125	.00118	.00100	.02843	.00459	2.93683
.805	0.766	.00054	.37040	.04651	.07732	.00126	.00100	.00143	.03746	.01230	3.18294
.805	10.978	.00086	.40674	.03751	.08013	.00134	.00134	.00101	.04668	.14915	3.13022
.805	13.161	.00144	.58926	.06063	.08468	.00308	.00119	.00217	.05998	.19321	2.89833
.805	15.437	.00516	.74042	.06163	.07040	.00554	-.00008	.00283	.06931	.25649	2.71670
.805	17.694	.00707	.88316	.06320	.06701	.00485	.00128	-.00437	.082218	.32863	2.50181
.805	19.888	.01900	.99701	.06432	.07570	.00286	.00130	-.00557	.091587	.39966	2.29114
.805	22.075	.01228	1.07608	.06702	.10117	.00255	.00119	-.00859	.09204	.46644	2.08398

RUN NO. 43/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.394	-.00959	.23734	.07523	.07493	.00145	.00107	.00337	.00339	.00508	-2.75037
.900	-.124	.00174	.10337	.07672	.07003	.00212	.00051	.00142	.00320	.00795	-1.34127
.900	2.145	.00430	.02145	.07628	.07167	.00133	.00035	.00246	.01650	.07913	.23415
.899	4.399	.00521	.14829	.07625	.07398	.00174	.00069	.00330	.00489	.00185	1.58671
.900	6.674	.00388	.27574	.07914	.07525	.00146	.00117	.00322	.02667	.11065	2.39201
.900	8.922	.00278	.40157	.08061	.07420	.00055	.00152	-.00139	.00021	.14191	2.70733
.899	11.180	.00886	.52505	.08462	.06901	.00276	.00204	-.00666	.04966	.10482	2.69820
.900	13.452	.01805	.66438	.08880	.06459	.00133	.00141	.00245	.06259	.23097	2.61937
.899	15.728	.01899	.80825	.08817	.05746	.00235	.00040	-.00991	.07509	.30396	2.48091
.900	18.038	.01254	.94324	.09127	.05793	.00056	.00059	-.00639	.08602	.37886	2.29274
.900	20.233	.01318	1.03261	.09621	.05193	.00004	.00149	-.00103	.09352	.44739	2.09126
.900	22.423	.01635	1.10626	.09916	.11107	.00191	.00169	-.00282	.09480	.51363	1.91733

LAS1 TABULATED SOURCE DATA  
LARC8TP7-664 (LA-51) (62F1M1C3) (WFE1SD) (V1)

PAGE 50

(RHV020)

PARAMETRIC DATA

BETA = .0000  
AILRDN = .0000  
SPDBRK = .0000

RUN NO. 42/ 0

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.880	-2.396	-.01143	.22561	.12937	.07890	.00166	.00179	.00300	.13789	.159376	
.981	-.062	-.00129	.07960	.13013	.06688	.00165	.00161	.00127	.13021	.50361	
.980	2.232	.00582	.16143	.13025	.06171	.00164	.00142	.00420	.0631	.42581	
.980	4.549	.00511	.21087	.12894	.05593	.00132	.00174	.00426	.19994	.14525	
.980	6.877	.00723	.35595	.12650	.05165	.00169	.00272	.00632	.3826	.16821	
.983	9.198	.00987	.49666	.12639	.04368	.00250	.0026	.00815	.47310	.20483	
.980	11.477	.00793	.64128	.13017	.03145	.00130	.00267	.01662	.62556	.25516	
.980	13.805	.00926	.79426	.13330	.01497	.00145	.00319	.00787	.73951	.31839	
.979	15.121	.01066	.94492	.13507	-.00046	.00145	.00342	.00942	.87026	.39214	
.980	18.419	.01302	.108387	.13328	-.00328	.00114	.00374	-.01034	.98623	.46892	
.980	20.686	.00983	.13013	.13013	-.01174	-.00111	.00394	-.01915	.1.07189	.54346	
.981	21.298	.01123	.222214	.12973	.01786	-.00020	.00442	-.01538	.1.59155	.56478	

RUN NO. 41/ 0

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
1.199	-2.398	-.01472	-.20743	.14452	.07787	.00123	.00102	.00453	-.20121	.15307	-1.31444
1.200	-.142	-.00583	-.05448	.14471	.05543	.00130	.00103	.00007	-.05438	.14475	-3.7568
1.200	2.291	.00177	.09145	.14437	.03611	.00125	.00057	-.00134	.08560	.14791	.57877
1.200	4.654	.00247	.23633	.14402	.01852	.00173	.00074	-.00081	.22387	.16272	1.37581
1.200	6.957	.00182	.37430	.14466	.00648	.00216	.00067	-.00018	.35402	.18894	1.87377
1.200	9.291	.00004	.50399	.14372	.00176	.00063	.00053	-.00061	.47417	.22321	2.12434
1.199	11.632	.00115	.64359	.14266	-.00846	.00015	.00038	-.00089	.60161	.26950	2.23231
1.199	13.987	.00406	.79094	.14440	-.02229	.00137	.00096	-.00271	.73259	.33129	2.21131
1.201	16.319	.00886	.91984	.14408	-.02848	.00100	.00145	-.00222	.80230	.39674	2.12307
1.200	18.601	.01203	1.03171	.14261	-.02429	-.00030	.00094	-.00598	.93233	.46425	2.08825
1.199	20.912	.01275	1.14986	.13966	-.01764	-.00033	.00089	-.00569	1.02427	.54068	1.93359
1.200	23.214	.00938	.126797	.13289	-.01251	-.00222	.00131	-.00429	1.11294	.62191	1.78953

## LAST TABULATED SOURCE DATA

LARC-TR-684 (LA-31) (02251M1C3) (ME150) (V1)

PAGE 51

(RMW021)

## PARAMETRIC DATA

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.45	-.00472	-.35091	.89667	.11631	.000218	.00001	.00054	-.34774	.06973	-4.90710
.350	-.090	-.00344	-.25037	.05947	.12189	.000227	.00009	.00628	-.25028	.05988	-4.34732
.350	1.947	-.00204	-.10903	.05978	.13050	.000274	.00015	.00392	-.1776	.05398	-3.16198
.350	4.095	-.00198	-.07005	.05724	.14042	.000241	-.00043	.01405	-.07986	.05179	-1.54168
.350	6.035	-.00266	.02211	.05141	.14986	.000217	-.00070	.01660	.01465	.05346	.30961
.350	8.105	-.00254	.12218	.04290	.15516	.000227	-.00059	.01551	.15491	.05700	1.92491
.350	10.168	-.00270	.22431	.03240	.16471	.000258	-.00023	.01665	.21507	.07149	3.00382
.351	12.203	-.00267	.33167	.02044	.17291	.000262	.00018	.00334	.31985	.09009	3.55143
.380	14.270	-.00153	.45021	.01503	.17337	.000318	.00106	.00130	.43241	.12632	3.42328
.349	16.335	-.00128	.56076	.01105	.18016	.000450	.00121	.00134	.53479	.16909	3.16287
.349	18.363	-.00020	.67692	.00362	.16839	.000664	.00140	.00116	.64123	.21692	2.95505
.369	20.444	.00144	.79964	-.01076	.19558	.000312	.00067	-.00593	.75304	.26922	2.79712
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.580	-.01055	-.401513	.06943	.14596	.00165	.000071	.00001	-.00160	.08759	-4.58473
.800	-.340	-.00346	-.22577	.07110	.14196	.00190	.00041	.00143	-.27534	.07262	-3.78113
.801	1.871	-.00552	-.10245	.07087	.14654	.00163	.00022	-.00054	-.16467	.06552	-2.51318
.801	4.097	-.00242	-.04239	.06796	.15536	.00188	.00031	-.00160	-.04714	.06476	-.72206
.800	6.330	.00045	.06005	.06380	.15773	.00119	.00074	-.00110	.07253	.07224	1.00003
.801	8.550	-.00190	.20590	.06199	.15963	.00113	.00013	-.00013	.19439	.09192	2.11484
.801	10.775	-.00175	.32012	.06390	.16659	.00132	-.00054	.00253	.12262	.2.46117	
.801	12.948	-.00122	.42001	.06574	.17664	.00172	.00144	.00096	.39460	.15810	2.49551
.800	15.190	.00294	.53666	.06643	.17848	.00383	-.00004	-.00161	.50050	.20472	2.44482
.801	17.309	.00510	.65310	.06847	.18594	.00423	.00027	-.00323	.60279	.26013	2.31373
.801	19.622	.00767	.77066	.06057	.19200	.00429	-.00080	-.00536	.71043	.32600	2.17672
.801	21.625	.00861	.88693	.06886	.20424	.00329	.00126	-.00662	.79776	.39365	2.02254

## LAST TABULATED SOURCE DATA

LARC9TP1-584 (LA-51) (B2F1MC3) (ME1SD) (V1)

(RUN#1)

## PARAMETRIC DATA

BETA	=	.000	ELEVIT =	-15.000
ALR2	=	.000	BORLAP =	-11.700
SP3DRK	=	.000		

RUN NO. 48 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.643	-.01127	-.42123	.09258	.17275	.00299	.00126	-.41652	.11188	-3.72288	
.898	-.380	-.00335	-.28127	.09333	.16477	.00319	.00174	-.28764	.09319	-2.94819	
.899	1.892	.00159	-.13943	.00329	.15716	.00287	.00142	-.00124	.08664	-1.61693	
.900	4.201	.00262	.01034	.09205	.14933	.00232	.00160	-.00194	.09256	.03860	
.900	6.507	.00251	.15762	.09038	.14282	.00124	.00119	-.00246	.10766	1.35948	
.899	8.766	.00187	.28461	.08953	.14128	.00335	.00124	-.00232	.26764	2.29982	
.900	11.022	.00507	.41697	.09185	.13502	.00194	.00156	-.00125	.39191	.16869	
.899	13.278	.01487	.53946	.09153	.13956	.00235	.00162	-.00138	.50199	2.36120	
.900	15.583	.01159	.66938	.09277	.14250	.00193	.00156	-.00143	.61985	.26918	
.900	17.819	.00900	.78983	.09415	.14997	.00115	.00134	-.001616	.72309	.33133	
.900	20.051	.01162	.88242	.09851	.17312	-.001010	.00216	-.001827	.79516	.39558	
.900	22.222	.01174	.95531	.10294	.20580	.00094	.00318	-.00171	.84577	1.85574	

RUN NO. 47 / 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.480	-.010893	-.39299	.14150	.18345	.00328	.00163	.00340	-.38650	.15837	-2.44693
.981	-.245	-.010104	-.24291	.14043	.16750	.00309	.00154	-.00116	-.24231	.14147	-1.71283
.981	1.987	.00580	-.09922	.13973	.15805	.00254	.00136	-.00197	-.10400	.13621	-.76354
.980	4.252	.00440	.04658	.13792	.14876	.00171	.00182	-.00168	.03622	.14150	.25692
.980	6.470	.00402	.19492	.13665	.13826	.00136	.00249	-.00123	.17828	.15774	1.13021
.980	8.715	.01444	.34226	.13650	.12631	.00129	.00238	-.00154	.31763	.18678	1.70156
.980	10.928	.00415	.49127	.13776	.11000	.00166	.00247	-.00124	.45624	.22839	1.99764
.980	13.163	.00586	.63182	.14125	.09954	.00136	.00156	-.00155	.56396	.28141	2.07188
.979	15.386	.00712	.77125	.13906	.08973	.00192	.00188	-.001818	.76671	.33870	2.08652
.979	17.616	.00920	.91144	.13505	.08451	.00169	.00196	-.001721	.82783	.40455	2.04631
.979	19.828	.00959	1.02999	.13090	.08937	.00197	.00145	-.001110	.92452	.47251	1.95661
.979	21.987	.01137	1.11714	.12841	.11135	.00101	.00177	-.00154	.98781	.55733	1.83636

## LA31 TABULATED SOURCE DATA

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## LARCBTPT-684 (LA-51) (B2F1MIC3) (WE1SD) (V1)

(RHV021)

## PARAMETRIC DATA

BETA	=	.000	ELEVTR =	-10.000
AIRRON	=	.000	DDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 46/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.199	-2.437	-.01488	-.31121	.16417	.14398	.00192	.00170	.00416	.17725	-.171470	
1.200	-.169	-.00167	-.16933	.16316	.12315	.00153	.00151	-.00085	.16356	-.1.53171	
1.200	2.063	.00502	-.02663	.16148	.10538	.00198	.00112	-.00243	.16042	-.20214	
1.200	4.314	.00301	.11438	.15902	.08830	.00103	.00090	-.00257	.10219	.61069	
1.200	6.565	.00273	.25437	.15669	.07491	.00139	.00136	-.00295	.18478	1.27084	
1.200	8.819	.00232	.38771	.15408	.06395	.00124	.00112	-.00249	.35950	.21170	
1.200	11.080	.00199	.52390	.15095	.05484	.00128	.00134	-.00255	.48512	.24862	
1.199	13.304	.00198	.65882	.14881	.04302	.00138	.00174	-.00136	.60760	.29642	
1.199	15.549	.00475	.78502	.14682	.03694	.00105	.00139	-.00144	.71693	2.04738	
1.200	17.798	.01604	.90540	.14408	.03435	.00182	.00160	-.001617	.61611	.41379	
1.200	19.967	.01735	1.01048	.13966	.04101	-.00075	.00199	-.001516	.47632	1.89350	
1.200	22.215	.01093	1.12591	.13369	.04670	.00048	.00157	-.001788	.99179	.54945	

## LARCBTPT-684 (LA-51) (B2F1MIC3) (WE1SD) (V1)

(RHV022)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
AIRRON	=	.000	DDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 110/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.132	5.02542	-.34543	.05296	.11312	.00170	.00371	-.06293	-.34322	.06577	-.5.2010
.351	-.086	5.02924	-.25130	.05576	.12111	.00035	.00314	-.06290	-.25121	.05614	-.4.4500
.350	1.901	5.02642	-.15622	.05649	.13002	-.00107	.00286	-.06303	-.15008	.05105	-.3.03649
.350	4.040	5.01772	-.05790	.05407	.14182	-.00279	.00232	-.06420	-.06157	.04905	-.1.23500
.350	6.094	5.00042	.03430	.04801	.14695	-.01458	.00291	-.06174	.02900	.05219	.55565
.351	8.155	4.97761	.13781	.03904	.15799	-.00620	.00325	-.06101	.13077	.05098	2.21700
.350	10.215	4.94611	.23960	.02935	.16707	-.00824	.00361	-.05989	.23060	.07138	3.23074
.351	12.276	4.91282	.34599	.01748	.17405	-.00900	.00400	-.05903	.33436	.09054	.7.60875
.351	14.345	4.87017	.47119	.01242	.17466	-.00944	.00483	-.05849	.45343	.12877	3.55111
.350	16.394	4.82459	.57660	.00973	.17946	-.00753	.00608	-.06498	.55233	.17264	3.1592
.350	18.453	4.77030	.67991	.00176	.19050	-.00657	.00662	-.06373	.64440	.21600	2.92126
.349	20.521	4.71066	.87116	.01301	.19965	-.00840	.00654	-.06545	.76116	.27116	2.80484

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## PARAMETRIC DATA

BFTA =	5.000	ELEVTR =	-10.000
AIIRON =	0.000	BDFLAP =	-11.700
SPUBRK =	0.000		

SOUTHWEST.

## LA51 TABULATED SOURCE DATA

LARC8PT-684 (LA-51) (B2F1M1C3) (WIE1SD) (V1)

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(RMWD22)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
AIRCH	=	.000	BOFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 107 / 0	
MACH	BETA
.980	5.16006
.980	-2.492
.980	-2.233
.980	5.16124
.981	2.017
.981	5.15624
.981	4.265
.980	6.502
.980	8.742
.980	11.018
.980	13.242
.979	15.476
.980	17.709
.980	19.899
.979	22.159

CA	CN	CLM	CBL	CYN	CY	CL	CD	L/D
.14375	-.39407	.17344	.00345	.00619	-.10414	-.38744	.16075	-2.41017
.14191	-.24294	.15990	-.00024	.00614	-.10197	-.24236	.14289	-1.66012
.14113	-.19396	.15123	-.00343	.00561	-.10121	-.09807	.13774	-.71782
.05347		.13997	.14305	-.00578	.00576	-.09737	.04291	.14356
.20032	.13882	.13519	-.00623	.00610	-.09426	.18330	.16071	1.10556
.34458	.13630	.12558	-.00570	.00600	-.08103	.31956	.16007	1.66019
.50286	.13011	.10813	-.00767	.00405	-.08356	.46719	.23167	2.01661
.64197	.14022	.10048	-.00713	.00260	-.08163	.59278	.28355	2.00057
.78087	.13793	.09443	-.00722	.00316	-.08441	.71576	.34129	2.09720
.91684	.13381	.09061	-.01017	.00007	-.08056	.83270	.40635	2.09920
1.02601	.12881	.10048	-.00936	.00466	-.07816	.92091	.47034	1.97979
1.13602	.12414	.10911	-.01126	-.00845	-.07920	1.00576	.54258	1.85368

RUN NO. 106 / 0	
MACH	BETA
1.200	5.17971
1.200	-2.436
1.200	-1.162
1.200	2.087
1.200	4.359
1.200	6.622
1.200	8.878
1.199	11.131
1.200	13.363
1.200	15.617
1.200	17.849
1.199	20.099
1.199	22.306

CA	CN	CLM	CBL	CYN	CY	CL	CD	L/D
.16491	-.30676	.13764	-.00322	.00704	-.10304	-.29949	.17701	-1.60446
.16258	-.16258	.16438	-.00478	.00572	-.09837	-.16211	.16484	-.98346
.02129	.16273	.10099	-.00531	.00430	-.09360	-.02720	.16185	-.16016
.12025	.15942	.08476	-.00583	.00319	-.08055	-.10778	.16009	.64120
.26037	.15720	.07227	-.00544	.00256	-.08359	.24051	.18610	1.29104
.39492	.15472	.06327	-.00510	.00236	-.08103	.36631	.21301	1.71326
.50589	.15273	.05518	-.00610	.00196	-.07950	.48809	.25069	1.9693
.63268	.14842	.04964	-.00565	.00155	-.07842	.60070	.29525	2.03054
.77748	.14521	.04714	-.00631	.00164	-.07742	.70969	.34915	2.03261
.90062	.14076	.04499	-.00837	.00498	-.06983	.81413	.41033	1.98554
1.01674	.13511	.04600	-.00869	-.00887	-.06523	.90848	.47612	1.98108
1.12692	.13192	.05372	-.00962	-.01032	-.06465	.99252	.54977	1.801533

ABC81PT-684 (LA-51) (02F1X1) (WIE:32) (V1)

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EJ EVTA

65/ 2

MACH	ALPHA	BE7A	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.349	-2.526	-0.00582	-1.15901	.05460	.02946	.00256	.00534	-.15296	.00510	-2.54493	
.350	-.012	-0.00550	-0.6627	.05598	.03228	.00317	.00305	-.05626	.00590	-1.16341	
.345	1.980	.00117	.01929	.05473	.03608	.00308	.00313	-.01254	.00536	.31442	
.350	4.928	-0.00534	.11723	.04983	.03090	.01259	.00456	.00412	.01544	1.95004	
.580	6.087	-0.00028	.21581	.04325	.04232	.01268	.00530	.00458	.21001	.06865	3.18721
.349	8.011	-0.00574	.31577	.03521	.04786	.00374	-.00122	.00170	.01777	.07899	3.90773
.350	10.226	-.00024	.41254	.02565	.05371	.00349	.00585	.00160	.42112	.10203	4.12744
.350	12.143	.00018	.51086	.02201	.05406	.00269	.00325	-.00410	.53391	.13739	3.88611
.350	14.244	.00012	.67151	.01935	.05389	.00579	.00291	-.00358	.64611	.18995	3.51247
.345	16.296	.00004	.76461	.01628	.05792	.00883	.00189	-.00438	.74852	.23379	3.17447
.343	18.317	.00254	.91147	.01706	.05522	.01101	.00102	-.00664	.85993	.30764	2.84138
2D	512	.00557	.02294	.01706	.05027	.00561	-.00118	.00011	.98021	.3893	2.54645

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MACH	ALPHA	BETA	CN	CLM	CBL	CYN	CF	CL	CD	L/D
.855	-2.336	-.01058	-.20647	.55915	.04977	.00274	.00296	-.20389	.06752	-.01969
.860	-1.188	-.00167	-.06998	.56030	.05118	.00295	.00031	-.06687	.06165	-.00165
.861	2.061	.01094	.01151	.55869	.05364	.00324	.00423	.00939	.05966	.15896
.860	4.190	.00013	.12770	.55450	.05295	.00311	.00050	.12337	.06359	.193720
.861	6.593	.01645	.23294	.55199	.05184	.00348	.00129	.05524	.08183	.111976
.860	8.781	.00020	.39332	.55328	.05139	.00355	.00150	.00459	.07069	.33446
.799	11.359	.01159	.53806	.55460	.05140	.00378	.00197	.05137	.15957	.233987
.801	13.457	.00094	.64740	.56555	.05844	.00317	.00151	.00518	.20556	.2.99746
.801	15.432	.00068	.75336	.59667	.05898	.00156	.00058	.01225	.25851	.2.75522
.801	17.667	.00175	.90834	.563373	.04879	.00198	.00048	.04638	.33572	.2.52106
.799	19.760	.01025	1.05838	.56430	.04897	.00162	.00011	.00557	.41157	.2.32141
.801	21.922	.00078	1.08114	.56822	.03666	.00228	-.00087	.00018	.46892	.2.06939

LAS1 TABULATED SOURCE DATA  
 LARCEPT-684 (LA-51) (82F1M1) (WE1S2) (W1)

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(INV623)

PARAMETRIC DATA

BETA = .000  
 ALRDN = .000  
 SPDBRK = .000

RUN NO. 63/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.484	-.00540	-.23244	.07431	.06735	.00270	.00149	.00089	-.22900	.00431	-2.71614
.900	-1.182	.00363	-.08959	.07602	.05769	.00325	.00094	-.00202	-.09935	.07634	-1.30143
.900	2.187	.00750	.03292	.07577	.05469	.00256	.00150	-.00427	.03000	.07697	.30984
.900	4.266	.00813	.14495	.07474	.05253	.00204	.00053	-.00446	.13900	.08532	1.62201
.900	6.555	.00932	.27665	.07408	.05140	.00292	.00158	-.00631	.26630	.10518	2.53565
.900	9.167	.01013	.43146	.07786	.04518	.00128	.00256	-.00764	.41355	.14560	2.84124
.900	11.215	.01087	.56054	.08021	.03868	.001422	.00342	-.00815	.53423	.18770	2.84621
.900	13.373	.01156	.68686	.08351	.02895	.00502	.00330	-.00946	.64092	.24011	2.70261
.900	15.633	.01183	.82203	.08802	.02233	.00429	.00424	-.01412	.76790	.30629	2.50713
.900	17.837	.01229	.93387	.09062	.01832	.00237	.00237	-.00390	.88126	.37845	2.32293
.900	20.142	.01380	1.05712	.09677	.04190	.00216	.00227	-.00764	.95915	.45486	2.10665
.900	22.565	.010815	1.10018	.10286	.09663	.00214	.00143	-.00591	.97653	.51798	1.68856

RUN NO. 62/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.295	-.01428	-.21187	.12631	.06885	.00311	.00150	.00080	-.070665	.13469	-1.53419
.980	-.046	.00266	-.07187	.12696	.05255	.00313	.00136	-.00313	-.07176	.12792	-.56497
.980	2.084	.00591	.08200	.12680	.03883	.00314	.00124	-.00490	.05735	.12897	.44466
.980	4.256	.00704	.19386	.12496	.02912	.00233	.00137	-.00595	.10406	.13900	1.32411
.980	6.454	.00795	.32881	.12304	.02150	.00220	.00120	-.00799	.31289	.15921	1.95225
.980	8.817	.01647	.47611	.12493	.00852	.00341	.00384	-.00945	.45133	.19633	2.29765
.980	11.408	.01655	.64738	.13061	-.00711	.00257	.00297	-.00734	.60875	.25698	2.37720
.980	13.008	.01727	.75555	.13373	-.01681	.00273	.00304	-.00787	.70606	.30336	2.35174
.979	15.529	.00735	.92472	.13733	-.03620	.00122	.00237	-.00721	.85419	.37991	2.21647
.979	17.649	.01168	1.06270	.14048	-.04935	.00004	.00329	-.01038	.97009	.45016	2.12110
.979	19.887	.01317	1.19316	.14257	-.05094	-.01055	.00329	-.01203	1.07351	.53993	1.98824
.977	22.792	.01370	1.30509	.13746	-.03911	.00065	.00370	-.01297	1.15757	.61821	1.87246

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## LAS1 TABULATED SOURCE DATA

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LARCATPT-664 (LA-51) (B2F1M1) (W1E1S2) (V1)

(RH9923)

## PARAMETRIC DATA

	BETA	AL1RCN	SPDBRK	CD
	.000	.000	.000	.000
				ELEVTR = .000
				EDFLAP = -11.700

RUN NO.	51 / 0	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
1.200	-2.270	-0.05651	-1.19023	.14579	.07159	.00222	.00140	.00176	.15321	-1.27294
1.200	.949	.00162	-1.14367	.14519	.04456	.00248	.00104	.00051	.14505	-1.30189
1.200	2.265	.00452	.09336	.14502	.02236	.00222	.00054	.00099	.08758	.59727
1.200	4.641	.01481	.24045	.14172	-.00008	.00103	.00059	.00136	.22818	.141979
1.200	6.739	.01540	.36193	.14224	-.01347	.00366	.00105	.00055	.34274	.15372
1.200	8.962	.01435	.49702	.14348	-.02638	.00345	.00108	.00050	.46861	.213329
1.200	11.841	.00374	.51178	.14289	-.03610	.00247	.00097	.00037	.57399	.25541
1.199	13.221	.00423	.75610	.14517	-.04917	.00098	.00065	.00298	.31425	.223655
1.199	15.579	.00569	.89533	.14656	-.05593	.00172	.00081	.00397	.62240	.38306
1.198	17.976	.00801	1.01337	.14719	-.05610	.00199	.00075	.01852	.91848	.45275
1.199	20.389	.01162	1.13194	.14683	-.05121	.00160	.00064	.00713	.053199	.1.99830
1.198	22.141	.01389	1.21626	.14445	-.04178	.00216	.00119	.00909	.1.07213	.59220

LARCATPT-684 (LA-51) (B2F1M1) (W1E1S2) (V1)

(RH9924)

## PARAMETRIC DATA

	BETA	AL1RCN	SPDBRK	CD
	.000	.000	.000	.000
				ELEVTR = -10.500
				EDFLAP = -11.700

RUN NO.	70 / 0	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D
.348	-2.127	-.00246	-3.35978	.05591	.12225	.00129	-.00033	.00543	.06923	-5.16348
.349	-1.114	-.00168	-2.27007	.05914	.12409	.00118	-.00066	.00442	.05442	-2.27195
.349	1.971	.00046	-1.16105	.05897	.12879	.00145	-.00074	-.00010	.05568	-4.55646
.350	4.150	.00047	-.08189	.05541	.13157	.00126	-.00123	.00044	-.01897	-3.07136
.350	6.588	.00012	.03355	.04769	.13869	.00120	-.00149	.00136	.05669	-1.73668
.350	8.126	-.00002	.11040	.04235	.14343	.00147	-.00142	.00332	.05753	.04334
.350	10.086	-.00110	.20900	.03479	.14997	.00195	-.00104	.00347	.07086	.1.79553
.350	12.309	.00018	.33418	.02636	.15548	.00162	-.00149	.00019	.32127	.07308
.350	14.235	.00028	.45260	.02168	.15296	.00180	-.00138	.00068	.43287	.1.3425
.350	16.533	.00058	.57201	.01961	.15387	.00209	-.00090	.00039	.54342	.3.32442
.350	18.353	.00136	.65517	.01540	.15746	.00301	-.00226	.00245	.65481	.2.81491
.349	20.491	.00155	.73795	.01409	.15281	.00428	-.00130	.00182	.77916	.2.54459

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## LA51 TABULATED SOURCE DATA

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LARC8TP1-684 (LA-51) (B2F1M1) (W1E192) (V1)

(RHVN24)

## PARAMETRIC DATA

BETA = .000  
 AIRROW = .000  
 SPCBRK = .000

RUN NO. 69/ 0

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.801	-2.634	-.01052	-.40553	.06854	.14376	.00152	.00033	-.40195	.08711	-4.61452	
.802	-.329	-.00164	-.27742	.07053	.13001	.00124	.00010	-.27711	.07213	-3.64070	
.801	2.009	.00256	.15765	.06909	.13677	.00104	-.00031	-.00105	.06352	-2.51871	
.801	3.987	.00296	-.05469	.06545	.13961	.00105	-.00026	-.00132	.05911	.96105	
.801	6.449	.00136	.08409	.05980	.14062	-.00016	.00008	-.00095	.06886	1.11581	
.802	8.477	.00015	.19813	.05965	.14095	.00066	.00000	-.00077	.18717	.08820	
.801	10.635	-.00132	.31451	.06106	.14840	.00118	.00064	.00000	.29784	.11806	
.801	12.910	.00257	.43663	.06122	.16032	.00345	.00089	-.00246	.41192	.552285	
.801	15.252	.00220	.54600	.06485	.17199	.00181	-.00037	-.00082	.50971	.62020	
.802	17.609	.00446	.68154	.06861	.17291	.00162	-.00090	-.00153	.62885	.27158	
.801	19.489	.00452	.81668	.06786	.17041	.00234	-.00113	.00133	.73782	.33310	
.801	22.184	.00564	.92105	.07091	.19614	.00144	-.00051	-.00274	.82609	.41344	

RUN NO. 68/ 0

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.900	-2.594	-.01065	-.41374	.09248	.16555	.00122	.00066	.00435	-.40913	.11111	-3.68224
.901	-.462	.00055	-.28010	.09364	.15438	.00204	.00001	-.00027	-.27933	.09590	-2.31272
.901	2.041	.00488	-.12593	.09169	.14245	.00154	-.00045	-.00145	.12941	.08714	-1.48158
.901	4.203	.00645	.00670	.08918	.13346	.00128	-.00005	-.00304	.00114	.08943	.00158
.901	6.566	.01592	.15275	.08885	.12677	.00065	-.00073	-.00369	.14193	.10275	1.38124
.901	8.568	.00507	.27228	.08858	.12267	.00033	-.00137	-.00394	.25634	.18217	2.33164
.901	11.689	.00374	.42613	.08831	.11445	.00177	.00166	-.00398	.40315	.18901	2.38537
.911	13.570	.02406	.55876	.09019	.11535	.00053	.00187	-.01453	.52211	.21877	2.38605
.900	15.496	.01765	.66310	.09080	.11681	.00096	.00178	-.00594	.61474	.26465	2.32279
.899	18.049	.00597	.81687	.09148	.11429	.00039	-.00069	-.00404	.74033	.34007	2.20053
.899	20.091	.01314	.91693	.09611	.13397	.00122	.00245	-.00950	.82212	.40524	2.04354
.901	22.161	.00432	.96266	.19435	.17619	.00036	-.00091	-.00328	.85219	.45976	1.85355

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## LA51 TABULATED SOURCE DATA

LARC8TP-684 (LA-51) (B271M1) (MAE1S2) (V1)

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(RHV024)

## PARAMETRIC DATA

BETA = .0000 ELEVTR = -10.000  
 AILRDN = .0000 BDFLAP = -11.700  
 SPDBRK = .0000

RUN NO. 67 / D

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.979	-2.455	-.51753	-.40199	.13997	.18246	.00226	.00090	.00341	-.39563	-.15689	-2.22167
.979	-.220	.50240	-.25382	.13697	.16911	.00216	.00106	.00262	-.25329	-.13795	-1.83611
.985	1.907	.50624	-.11349	.13685	.14283	.00179	.00050	.00470	-.11798	.01299	-.86714
.981	4.229	.51174	.03438	.13476	.12731	.00141	.00110	.00559	.02435	.13695	.17778
.980	5.534	.510650	.18927	.13331	.11291	.00105	.00218	.00634	.17287	.15398	1.12263
.980	8.510	.510632	.32095	.13376	.09677	.00011	.00236	.00629	.29762	.17979	1.65540
.979	10.923	.510581	.49059	.13680	.07839	.00011	.00234	.00617	.45582	.22709	2.00723
.979	13.528	.510821	.62377	.13875	.06985	.00065	.00133	.00855	.57644	.27380	2.09007
.978	15.444	.51164	.77794	.13729	.05993	.00128	.00178	.01145	.71329	.33950	2.10103
.977	17.626	.51199	.92482	.13591	.04704	.00146	.00140	.01132	.84052	.40871	2.09654
.982	19.676	.51394	1.04743	.13889	.03451	-.00009	.00346	.01210	.93961	.48317	1.94469
.979	22.456	.51395	1.19125	.13295	.03515	-.00118	.00259	-.01127	1.05048	.57777	1.82037

RUN NO. 68 / D

MACH	ALPHA	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
1.200	-2.497	-.51773	-.16519	-.14591	.00143	.00121	.00229	-.31023	-.17887	-.75453	
1.200	-.197	-.51593	-.17086	-.15406	-.11921	.00598	.00093	-.00089	-.17079	.16454	-.03309
1.201	2.375	-.51472	-.53111	-.16298	-.29711	.00125	.00164	-.00316	-.03691	.15965	-.23121
1.202	4.253	.502865	.09951	.15844	.07779	.00122	.00177	-.00236	.05748	.15539	.52896
1.203	6.543	.504463	.124997	.15596	.07946	.00131	.00132	-.00312	.22153	.16238	1.21521
1.202	8.883	.504312	.55226	.15437	.04197	.00160	.00173	-.00298	.53372	.21311	1.70682
1.203	13.375	.503315	.52034	.15220	.04871	.00193	.00186	-.00264	.48195	.24843	1.93922
1.203	13.357	.503250	.567013	.14955	.03177	.00111	.00267	-.00222	.51743	.35731	2.05596
1.203	15.125	.50537	.82445	.14713	.01121	.00153	.00105	-.00462	.75096	.37725	2.02823
1.202	17.753	.50422	.91195	.14475	.01157	.00152	.00158	-.00568	.22439	.41257	1.98135
1.202	20.387	.50562	1.02528	.14182	.011612	.00135	.00168	-.00495	.31429	.46516	1.29451
1.202	22.173	.50436	1.11966	.13829	.01159	.00160	.00159	-.00493	.55632	.78559	1.78559

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## LASI TABULATED SOURCE DATA

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LARC07P7-604 (LA-51) (B2F1H) (WE192) (W1)

(RHV023)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 AILRON = .000 BUFLAP = -11.700  
 SPDBRK = .000

RUN NO. 115/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.153	5.02997	-34623	.03292	.11062	.00268	.001262	-.07154	-.34462	.06889	-5.22092
.350	-.002	5.03506	-25913	.03506	.11296	.00139	.002357	-.07412	-.25914	.05648	-4.38643
.350	1.963	5.03148	-16618	.03657	.11865	.00130	.00173	-.07223	-.16602	.05095	-3.30444
.350	4.028	5.02238	-17059	.03551	.12341	.00107	.00119	-.07221	-.07418	.05841	-1.53208
.350	6.076	5.01581	.03083	.04729	.12829	.00336	.00126	-.07065	.02266	.05029	.51020
.350	8.144	4.98380	.12853	.03997	.13497	.00553	.00193	-.07141	.1257	.05777	2.10429
.350	10.227	4.95402	.23812	.03178	.14226	.00574	.00173	-.07034	.22669	.05355	3.10914
.350	12.250	4.91992	.35070	.02370	.14561	.00688	.00221	-.07162	.33769	.05757	3.46114
.350	14.338	4.87871	.47779	.02170	.14348	.00736	.00434	-.07581	.45754	.13934	3.28359
.350	16.396	4.83094	.60418	.01561	.14442	.00873	.00490	-.07635	.57515	.16571	3.09709
.349	18.450	4.77911	.72408	.010925	.14700	.01093	.00425	-.08019	.68394	.23793	2.87458
.349	20.536	4.71902	.87116	.00574	.14220	.01781	.00683	-.08480	.01379	.31097	2.61689

RUN NO. 114/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.801	-2.590	5.14250	-39696	.06523	.13685	.00338	.00485	-.08666	-.39560	.08319	-4.75517
.801	-.339	5.14942	-26779	.06814	.13094	.00255	.00451	-.08632	-.26738	.06973	-3.83492
.801	1.672	5.14465	-15604	.06783	.13185	.00151	.00377	-.08701	-.15617	.06270	-2.52223
.801	4.073	5.13593	-03675	.06366	.13394	-.00134	.00318	-.08502	-.04318	.06074	-.71078
.801	6.332	5.11476	.06878	.05798	.13570	-.00405	.00375	-.08010	-.07886	.06709	1.17541
.801	8.597	5.06444	.21472	.05692	.13890	-.00465	.00395	-.08205	.20381	.06838	2.30599
.801	10.796	5.03176	.33246	.05931	.14553	-.00432	.00410	-.08241	.31546	.12053	2.61130
.801	13.032	5.01571	.45345	.05899	.15378	-.00492	.00420	-.08547	.42847	.15972	2.68259
.801	15.230	4.96786	.55426	.06139	.16920	-.00978	.00210	-.08337	.51664	.20491	2.53101
.799	17.506	4.91702	.68722	.06177	.16374	-.01073	.00225	-.08709	.63682	.26563	2.39741
.801	19.771	4.86426	.83512	.06179	.16896	-.01743	.00362	-.09562	.76499	.34062	2.24589
.799	22.024	4.80573	.97295	.06196	.16639	-.00385	.00562	-.10599	.87072	.42229	2.00586

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## LA51 TABULATED SOURCE DATA

MARC81P1-684 (LA-51) (B2F1M1) (WAE1S2) (V1)

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(RHV025)

## PARAMETRIC DATA

BETA 2 5.000 ELEVTR 2 -30.000  
 ALTRON 3 .000 BDFLAP 2 -11.700  
 SPDRK 2 .000

RUN NO. 113/0

	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CLF
ALPHA	3.17316	-.40700	.08740	.13366	.00726	.00526	.00149	-.00201	-.00117
MACH	.861	.860	.86063	.05073	.14143	.00419	.00511	-.00508	-.001671
	.960	.952	.91634	.06073	.13348	.00130	.00405	-.00010	-.002312
	.960	1.518	.917812	.09019	.12331	-.00091	.00415	.00000	.00000
	.959	6.214	.915607	.08615	.12180	-.00296	.00366	.00000	.00000
	.959	6.474	.914611	.08152	.11552	-.00351	.00366	.00000	.00000
	.959	8.765	.911392	.29717	.08291	.00356	.00351	-.00353	-.00353
	.959	11.571	.907941	.43264	.08587	.00435	.00181	-.00615	-.00615
	.959	15.340	.903626	.56086	.08531	.00680	.00015	-.00370	-.00370
	.959	19.621	.909279	.69864	.08742	.00819	-.00054	-.00054	-.00054
	.959	22.875	.904541	.82900	.09752	.00919	-.00072	-.00072	-.00072
	.959	27.567	.909572	.91752	.09101	.01020	-.00171	-.00136	-.00136
	.959	32.028	.91649	.97157	.09266	.01851	-.00342	-.00280	-.00280

RUN NO. 102/0

	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CLF
ALPHA	5.14717	-.30536	.13970	.16762	.00351	.00824	.00834	-.36342	-.15651
MACH	-.2.491	-.2.267	3.15425	.12422	.13692	.14277	.00551	-.00250	-.00005
	.981	.980	3.15128	-.50355	.13705	.13195	-.00481	-.00035	-.00035
	.981	4.210	5.13685	-.04896	.13414	.11695	-.00582	-.00054	-.00054
	.981	6.457	5.11250	.19103	.15101	.10722	-.00476	-.00290	-.00290
	.981	8.707	5.08150	.34303	.13205	.05346	-.01529	-.00058	-.00058
	.981	11.937	5.03980	.50274	.12591	.07769	-.00397	-.00454	-.00454
	.981	15.192	4.99530	.64456	.13678	.07106	-.00576	-.00326	-.00326
	.979	18.447	4.95255	.79123	.13460	.05965	-.00729	-.00040	-.00040
	.979	17.594	4.89458	.93051	.13310	.05626	-.00849	-.00162	-.00162
	.979	19.905	6.82563	1.04551	.13150	.06033	-.00489	-.00300	-.00300
	.979	22.102	4.76454	1.15227	.12772	.07656	-.01147	-.00142	-.00142

## LA51 TABULATED SOURCE DATA

PAGE 63

LARC0PT-684 (LA-51) (B2F1M1) (WIE1S2) (V1)

(RHV025)

## PARAMETRIC DATA

BETA = 5.0000 ELEVTR = -10.0000  
 AILRON = .0000 BDFLAP = -11.7000  
 SPDBRK = .0000

RUN NO. 111/ 0

MACH	ALPHA	BETA	CN	CLM	CBL	CYN	CY	CL	CD	L/D	
1.199	-2.447	5.16771	-.30703	.16204	.13693	-.00302	.00970	-.0991	-.29970	.17800	-1.58369
1.200	-.178	5.17162	-.16134	.16340	.11217	-.00444	.00801	-.09753	-.16084	.16391	-.36120
1.200	2.054	5.16456	-.02120	.16050	.09110	-.00443	.00589	-.09320	-.02694	.15983	-.68777
1.200	4.319	5.14775	.11983	.15685	.07069	-.00449	.00426	-.08841	-.16687	.16537	.64628
1.200	6.568	5.12014	.25333	.15417	.05581	-.00478	.00301	-.08259	.23403	.18214	1.28493
1.200	8.846	5.08831	.39746	.15333	.04076	-.00593	.00236	-.07953	.36916	.21262	1.73621
1.200	11.109	5.04860	.53781	.15175	.02872	-.00826	.00150	-.07612	.49849	.25253	1.97398
1.199	13.365	5.00632	.67358	.14862	.01771	-.00771	-.00001	-.07461	.62098	.30335	2.05786
1.200	15.592	4.96143	.79451	.14581	.01418	-.00704	-.00148	-.07549	.72609	.35399	2.05115
1.200	17.831	4.90689	.91450	.14248	.01548	-.00643	-.00424	-.07399	.82694	.41567	1.98943
1.201	20.057	4.84254	1.02342	.13683	.02303	-.00641	-.00735	-.07058	.91373	.48140	1.98608
1.200	22.284	4.77184	1.12512	.13267	.03746	-.00665	-.00958	-.06885	.99179	.54941	1.89338

LARC0PT-684 (LA-51) (B4F1M1) (WIE1S2) (V1)

(RHV126)

## PARAMETRIC DATA

BETA = 5.0000 ELEVTR = -10.0000  
 AILRON = .0000 BDFLAP = -11.7000  
 SPDBRK = .0000

RUN NO. 130/ 0

MACH	ALPHA	BETA	CN	CLM	CBL	CYN	CY	CL	CD	L/D	
.349	-2.069	-.00306	-.15956	.05446	.02656	.00209	.00623	-.15749	.06018	.261685	
.350	-.025	-.00176	-.06061	.05596	.02682	.00215	-.00145	.00410	-.06859	.05539	-.122505
.350	.278	-.00180	-.0634	.05618	.02952	.00232	-.00101	.00174	-.06461	.05587	-.115646
.350	2.233	-.00040	.02763	.05125	.03118	.00251	.00080	-.00101	.02550	.05529	.16122
.349	3.940	-.00114	.10571	.01988	.03105	.00266	-.00024	.00056	.10213	.05713	1.78917
.350	5.927	-.00192	.20096	.04240	.03131	.00274	-.00016	.00191	.19551	.06292	3.01698
.350	8.109	-.00229	.30818	.03039	.03087	.00292	-.00008	.00472	.30182	.07555	4.188992
.350	10.424	-.00263	.42085	.01779	.03232	.00274	-.00013	.00559	.41168	.09364	4.30563
.350	12.491	-.00178	.54167	.00717	.02734	.00319	-.00000	.00281	.52730	.12415	4.24729
.349	14.321	-.00113	.65443	.00810	.01654	.00487	-.00142	.00139	.63219	.16973	3.72417
.349	16.295	-.00160	.77188	.00912	.01630	.00545	-.00098	.00137	.73031	.22333	3.22662
.349	18.410	-.00116	.93845	.00396	.01278	.00169	-.00012	.00199	.86099	.24978	2.97122
.349	21.731	.00172	1.13367	-.01647	.01363	.00173	-.00363	.01173	.101363	.41256	2.56111

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## LAS1 TABULATED SOURCE DATA

LARC8TP1-684 (LA-51) (B4F1M1) (M1E1S0) (V1)

PAGE 64

(RHV026)

## PARAMETRIC DATA

BETA = .000  
 AILRON = .0005  
 SPDRK = .000

RUN NO. 129/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CC	L/D
.900	-2.290	-.00805	-.21290	.03927	.04995	.00232	.00055	.00377	-.21037	.06773	-.210610
.901	-.102	.00054	-.10239	.06061	.04831	.00234	.00055	.00092	-.10228	.06080	-.10243
.901	1.878	.00374	-.00281	.05983	.04756	.00261	.00055	.00267	-.00474	.05987	-.00575
.901	4.532	.00295	-.13995	.05309	.04377	.00227	.00064	.00235	.00339	.06399	2.11455
.901	5.441	.00175	-.22215	.05015	.03844	.00304	.00140	.00254	.00300	.07710	3.05203
.901	8.881	-.00029	-.37137	.04928	.03382	.00328	.00160	.00167	.00031	.05653	3.33887
.901	15.361	-.00058	-.47938	.03095	.03006	.00294	.00185	.00146	.00094	.16217	3.26523
.891	13.968	-.00039	.50002	.03578	.02545	.00353	.00168	.00176	.00259	.16379	3.02615
.891	15.181	.00175	.72936	.03689	.00915	.00562	.00143	.00143	.00265	.24592	2.02167
.891	17.416	.00048	.86370	.03752	.00123	.00121	.00141	.00141	.00059	.31339	2.57457
.891	19.724	-.00026	.98533	.05674	.00169	.00425	.00344	.00062	.00259	.33615	2.33859
.890	22.385	-.00026	1.94276	.05302	.03117	-.00127	.00162	-.00153	.00345	.44540	2.05294

RUN NO. 128/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CC	L/D
.900	-2.461	-.00015	-.24092	.07551	.06795	.00255	.00135	.00143	-.23754	.08070	-.23492
.901	-.099	.00361	-.08525	.07458	.03322	.00271	.00125	.00151	-.19512	.07474	-.127267
.901	2.182	.00522	-.13131	.07373	.04711	.00188	.00101	.00365	.02748	.07483	-.35722
.901	4.447	.00386	-.15214	.07216	.04412	.00192	.00124	.00420	.04630	.02352	1.74581
.901	6.637	-.00052	.07115	.07137	.03754	.00225	.00134	.00558	.02102	.16273	2.51335
.901	8.628	-.00013	.07262	.07262	.03279	.00262	.00198	.00533	.03771	.13316	2.23551
.901	11.151	-.00229	.07757	.07757	.01344	.00261	.00116	.00722	.45993	.11771	2.81316
.901	13.479	-.00374	.06498	.06855	-.00348	.00304	.00143	.00888	.62766	.23475	2.57833
.899	15.538	.00059	.08457	.08568	-.01519	.00304	.00394	-.00918	.73342	.29092	2.52052
.899	17.944	-.00773	.91864	.08605	-.01633	.00265	.00591	-.00839	.24745	.36485	2.32256
.899	23.168	1.01580	.91528	.08754	-.01135	-.00511	.00658	-.01314	.52357	.43505	2.14594
.899	22.174	.00546	.08932	.08932	-.02311	-.00551	-.00913	-.04497	.48158	.59221	1.88221

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LARCC9TP7-684 (LA-51) (B4F1M1) (ME1SA) (V1)

(RHV026)

## PARAMETRIC DATA

BETA =	.000	ELEVTR =	.000
A1LRON =	.000	ADFLAP =	-11.700
SFDBRK =	.000		

RUN NO. 127/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.445	-.001709	-.230001	.125008	.07173	.00260	.00210	.00073	-.22446	.13478	-1.66542
.980	-.153	.00007	-.08704	.12629	.05237	.00247	.00164	-.00190	-.00871	.12652	-.68533
.980	2.208	.01795	.03657	.12596	.03412	.00269	.00165	-.00540	.00367	.12812	.41892
.980	4.418	.01665	.19792	.12266	.01893	.00220	.00247	-.00577	.18788	.13755	1.36597
.979	6.728	.010935	.33624	.11995	.00469	.00231	.00177	-.00847	.36988	.15852	2.01795
.979	8.969	.011758	.47259	.11957	-.01295	.00267	.00134	-.00835	.44631	.19146	2.34146
.979	11.501	.00813	.63585	.12322	-.03713	.00278	.00177	-.00912	.50952	.24751	2.41813
.982	13.614	.01380	.76689	.12903	-.05366	.00437	.00246	-.01246	.71497	.30592	2.33714
.981	15.912	.01486	.90733	.12931	-.07015	.00467	.00202	-.01371	.83691	.37355	2.24045
.981	18.390	.01642	1.06603	.13305	-.09076	.00163	.00155	-.00876	.99662	.46257	2.09614
.981	20.469	.01723	1.19808	.13422	-.10812	-.00172	.00558	-.00981	1.07531	.54510	1.97269
.978	22.783	.01779	1.28878	.13154	-.08997	.00104	.00545	-.00997	1.13728	.62135	1.83329

RUN NO. 126/0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.506	-.01312	-.21280	.13954	.07542	.00177	.00157	.00227	-.20650	.14871	-1.38862
1.201	-.057	-.00121	-.05566	.13902	.04155	.00210	.00138	-.00111	-.00552	.13907	-.39923
1.201	2.253	.00357	.08626	.13818	.01399	.00234	.00102	-.00055	.00076	.14146	.57091
1.201	4.546	.00163	.22865	.13735	-.01228	.00141	.00198	-.00186	.21704	.15504	1.39993
1.200	6.976	.00231	.37024	.13454	-.03211	.00279	.00151	-.00262	.35116	.17851	1.96713
1.200	9.131	.00054	.48920	.13335	-.04439	.00101	.00132	-.00172	.46184	.20929	2.20668
1.199	11.454	.00007	.63073	.13344	-.06251	.00240	.00196	-.00226	.59167	.25604	2.31090
1.201	13.941	-.00034	.78710	.13479	-.08598	.00140	.00211	-.00228	.73144	.32045	2.28655
1.200	16.201	.00025	.90921	.13619	-.0981	.00135	.00135	-.00268	.83511	.38446	2.17218
1.199	18.438	.00012	1.02217	.13711	-.10496	.00072	.00125	-.00294	.92633	.45336	2.04325
1.198	20.756	.00323	1.13173	.13634	-.10555	.00184	.00398	-.00188	1.01996	.52657	1.91076
1.200	22.982	-.00032	1.22549	.13575	-.10303	.00041	.00365	-.00104	1.07522	.60347	1.78172

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LACCORP-594 (LA-31) (SAF1M1) (NIE1SD) (V1)

(RMN927)

## PARAMETRIC DATA

DETA = 0.000  
ALCON = 0.000  
SPERK = 0.000

ELEVTR = -10.000  
DEFLAP = -41.750

RUN NO. 9570

	DETA	CN	CA	CLW	CAL	CYN	CL	C	L/3
1104	ALPHA	-0.00299	-0.34632	.05511	.11596	.00195	.00735	-0.54405	-0.01085
1105		-0.00293	-0.25558	.05687	.11461	.00120	.00542	-0.53592	-0.01112
1106	1.940	-0.00298	-0.17435	.05655	.11767	.00085	.00302	-0.17524	-0.33642
1107	3.976	-0.00151	-0.08661	.05482	.11722	.00096	.00327	-0.08422	-0.04630
1108	6.263	-0.00164	-0.01628	.04766	.11839	.00078	.00259	.01115	.11752
1109	8.032	-0.00161	-0.00801	.03330	.11720	.00059	.00153	.00151	.22773
1110	10.165	-0.00200	-0.21621	.02237	.12115	.00160	.00465	.02789	.06567
1111	12.278	-0.00219	-0.35105	.01558	.11800	.00100	.00303	.00445	.3.69415
1112	14.314	-0.00149	-0.45349	.01549	.10740	.00145	.00136	.43010	.3.48598
1113	15.296	-0.00145	-0.37208	.01103	.09855	.00222	.00115	.54551	.1.18025
1114	16.972	-0.00019	-0.73227	.00532	.08877	.00112	.00055	.00216	.2.41056
1115	18.417	-0.00073	-0.82615	.00165	.08314	.00227	.00059	.00226	.2.77504

RUN NO. 9670

	DETA	CN	CA	CLW	CBL	CYN	CL	C	L/3
1116	ALPHA	-0.04354	-0.58601	.05687	.11294	.00170	.00391	-0.50270	-0.02760
1117		-0.04325	-0.47623	.07735	.10405	.00177	.00150	-0.27435	-0.01532
1118	1.936	-0.04124	-0.65237	.05515	.12962	.00087	.00072	-0.00184	-0.00024
1119	4.224	-0.00042	-0.03264	.06333	.12192	.00105	.00013	-0.37320	-0.00102
1120	6.463	-0.00105	-0.02076	.05751	.10510	.00023	.00010	-0.07976	-0.00058
1121	8.455	-0.00142	-0.19464	.06617	.11899	.00046	.00025	.4.6074	.2.21614
1122	10.750	-0.00225	-0.51141	.05718	.12017	.00125	.00121	.2.95517	.1.14775
1123	12.915	-0.00142	-0.45021	.06002	.12259	.00165	.00114	.00235	.4.15703
1124	15.181	-0.00020	-0.52533	.05287	.11611	.00329	.00057	.00250	.1.0266
1125	17.244	-0.00157	-0.68635	.01617	.11102	.00517	.00052	.00155	.2.30773
1126	19.546	-0.00049	-0.79549	.06107	.10686	.00476	.00102	.00136	.3.04221
1127	21.760	-0.00026	-0.56452	.06226	.11420	.00188	.00082	.00192	.2.07500

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## LAF51 TABULATED SOURCE DATA

LARC6TP7-604 (LA-51) (B4F1M1) (W1E1S0) (V1)

(RHV027)

RUN NO.		93/ 0									
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D	
.900	-2.619	-.01376	-.41732	.09009	.16621	.00077	.00072	-.41277	.10908	-3.78462	
.900	-.219	-.00346	-.26566	.09092	.14849	.00161	.00121	-.26531	.09194	-2.88575	
.899	2.034	.00223	-.12367	.08883	.13565	.00181	.00101	-.00107	.08439	-1.50193	
.899	4.282	.00357	.01564	.08541	.11634	.00153	.00114	-.00185	.09222	.08634	.10681
.900	6.538	.00125	.15022	.08326	.10840	.00136	.00131	-.00175	.13976	.09982	1.40006
.899	8.733	-.01154	.27507	.08286	.19976	.00054	.00127	-.00170	.25930	.12356	2.05685
.899	10.993	.00079	.41203	.08378	.08163	.00101	.00235	-.00308	.38489	.16082	2.41578
.899	13.325	.00539	.53978	.08678	.07325	.00169	.00299	-.00539	.50524	.20885	2.41917
.899	15.458	.00543	.65105	.08769	.06803	.00155	.00172	-.00467	.60413	.25804	2.36116
.899	17.727	.00744	.76649	.08737	.06847	.00092	.00196	-.00599	.70349	.31660	2.22272
.899	19.968	.01182	.87223	.08881	.08059	-.00092	.00107	-.01069	.78933	.38161	2.06840
.899	22.038	.00609	.92148	.09361	.10979	-.01413	.00382	-.01751	.81913	.43253	1.89356

RUN NO.		92/ 0											
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CL	CD	L/D			
.979	-2.522	-.001698	-.39607	.13759	.17673	.00162	.00181	-.00438	-.38964	.15488	-2.51566		
.980	-.230	-.00124	-.24074	.13544	.14923	.00158	.00083	-.00222	-.24020	.13641	-1.76090		
.980	1.939	.00416	-.10356	.13457	.12826	.00177	.00180	-.00337	-.10815	.13198	-.02491		
.980	4.329	.00363	.05381	.13134	.10561	.00116	.00162	-.00410	.04374	.13512	.32392		
.980	6.456	.00461	.18814	.12933	.08777	.00131	.00249	-.00557	.17234	.15026	1.14693		
.979	8.666	.00279	.33165	.12940	.08847	-.00028	.00257	-.00461	.30838	.17780	1.73442		
.979	10.920	.00277	.47993	.13125	.04468	-.00049	.00275	-.00461	.44638	.21979	2.03092		
.978	13.068	.00522	.61328	.13294	.03036	.00198	.00360	-.00728	.56734	.26816	2.11567		
.977	15.399	.01838	.74685	.13218	.01940	.00312	.00196	-.01737	.68493	.32375	2.10261		
.977	17.422	.00768	.86230	.12937	.00947	.00117	.01273	-.00787	.78401	.38161	2.05446		
.983	19.704	.00479	1.01014	.13558	-.01765	-.00295	.01268	-.00628	.90129	.46522	1.93347		
.981	21.953	.00033	1.13745	.13033	-.01461	-.00248	.00328	-.01884	1.0026	.54611	1.84258		

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## LAC1 TABULATED SOURCE DATA

LARC8PT-684 (LA-51) (E4F1M1) (ME1SG) (V1)

PAGE 68

RH90271

## PARAMETRIC DATA

BETA = .000  
AILRN = .000  
SPDBRK = .000

ELEVTR = -10.000  
BDFLAP = -15.700

RUN NO. 91 / 0

MACH	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
1.220	-2.405	-.310007	.159004	.135045	.00078	.00055	.00056	-.300209	.17215	-1.76006
1.220	.107	-.03275	.15845	.15725	.00726	.00055	.00056	-.050216	.15754	-1.03591
1.220	6.526	.052553	.15395	.08105	.00122	.00086	.00086	-.050215	.15294	-1.19915
1.220	4.342	.11248	.15095	.05582	.00130	.00110	.00110	-.052119	.15866	.63562
1.220	3.048	.06090	.25427	.14788	.03552	.00143	.00143	-.052026	.17622	1.33525
1.220	2.377	.00105	.41712	.14311	.01352	.00049	.00049	-.001421	.15916	1.85618
1.220	1.625	.00167	.55145	.14179	.00095	.00049	.00049	-.001423	.15157	2.04662
1.195	13.299	.50220	.65632	.14234	.00164	.00078	.00078	-.00157	.09590	2.09318
1.198	15.766	.05445	.79429	.14011	.00359	.00054	.00054	-.00157	.12534	2.07134
1.190	17.645	.00463	.69499	.13707	.00340	.00038	.00038	-.002056	.091954	2.05218
1.190	25.224	.00710	.00513	.13453	.00233	.00041	.00041	-.002512	.109291	1.87532
1.191	22.151	.03750	.08969	.13185	-.00320	-.00052	-.00052	-.002735	.15298	1.05105

LARC8PT-684 (LA-51) (E4F1M1) (ME1SG) (V1)

## PARAMETRIC DATA

BETA = .000  
AILRN = .000  
SPDBRK = .000

ELEVTR = -10.000  
BDFLAP = -11.700

RUN NO. 100 / 0

MACH	BETA	CN	CA	CLW	CBL	CYN	CY	CL	CD	L/D
.350	-2.040	5.03085	-.35275	.05490	.00700	.00089	.00035	-.07305	.33558	4.95254
.350	.046	5.03405	-.23651	.05744	.00536	-.00112	.00315	-.07271	.23555	-4.16670
.351	2.512	5.03053	-.12463	.05659	.00832	-.00021	.00124	-.07439	.12128	-2.5323
.351	4.250	5.02154	-.09318	.05370	.00919	-.00287	.00212	-.07322	.06965	-1.14723
.351	6.200	5.020596	.04263	.04626	.00170	-.00415	.00164	-.07344	.07337	.73809
.351	0.169	4.98275	.13052	.03753	.00265	-.00125	.00259	-.07181	.05532	2.24678
.351	10.279	4.97440	.23566	.02571	-.00521	-.00244	.00244	-.07324	.06718	3.37601
.351	12.346	4.92000	.34164	.01504	.00124	-.00518	.00206	-.07521	.08775	3.76582
.351	14.299	4.88162	.46086	.01361	-.00484	.00133	-.00133	-.07826	.12331	3.54532
.351	16.612	4.82254	.51371	.00923	.00451	-.00249	.00400	-.07919	.16341	3.13717
.351	19.571	4.77765	.71084	.00539	.00266	-.00352	.00497	-.08657	.07665	2.53422
.351	21.577	4.67746	.92201	.00123	.00098	-.00498	.00573	-.08016	.13354	2.60461

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## LA51 TABULATED SOURCE DATA

PAGE 69

LARC8TP7-604 (LA-51) (BAF1M1) (WAE1S0) (V1)

(RHVN28)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 AILRON = .0000 BUFLAP = -11.700  
 SPDBRK = .0000

RUN NO. 99/ 0

MACH	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	
ALPHA	5.14426	-.37436	.06734	.13277	.00317	.00485	-.08640	-.3743	.08198	-4.55069	
.801	-2.249	.26055	.06904	.12495	.00108	.00476	-.08627	-.26032	.06992	-3.72326	
.801	-.193	-.15022	.06817	.12197	-.00161	.00405	-.08603	-.15240	.06315	-2.41320	
.801	1.902	5.14654	-.03308	.06334	.11958	-.00168	.00344	-.08479	-.03747	.06084	-6.1589
.801	4.050	5.13545	-.09645	.05566	.11737	-.00432	.00393	-.08458	.08965	.06605	1.35723
.801	6.391	5.11490	.021676	.05320	.11323	-.00410	.00385	-.08389	.01628	.08321	2.42104
.801	8.653	5.08734	.34172	.05396	.11544	-.00385	.00307	-.08198	.32456	.12123	2.67571
.801	11.191	5.04653	5.01170	.43095	.11942	-.00502	.00237	-.08169	.40654	.15444	2.63229
.801	13.083	4.97024	.53980	.06056	.11619	-.00357	.00097	-.08236	.50513	.19975	2.52682
.801	15.175	4.86992	.76181	.05562	.10118	-.00061	-.00130	-.08557	.70138	.29601	2.37527
.810	18.650	4.84898	.84187	.05130	.10006	-.00026	-.00233	-.08483	.77132	.33923	2.27373
.799	20.045	4.77989	.88230	.05894	.12610	-.00108	-.00474	-.07667	.79653	.38400	2.07430
.801	21.916	4.77778									

RUN NO. 98/ 0

MACH	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	
ALPHA	5.17482	-.40845	.08780	.15575	.00632	.00513	-.09200	-.40409	.10607	-3.81976	
.900	-2.576	5.18175	-.25985	.08899	.13877	.00389	.00487	-.09260	.09127	-2.84225	
.900	-.281	5.18070	-.12075	.08661	.12358	.00201	.00433	-.09253	.12369	.08445	-1.46456
.900	1.946	5.16798	-.02579	.08483	.11005	.00027	.00416	-.09197	.01938	.08652	.22402
.901	4.281	5.14313	-.08145	.08145	.10409	-.00077	.00385	-.08932	.14812	.09914	1.49400
.900	6.606	8.848	5.11374	.08233	.08104	-.00237	.00272	-.08680	.27638	.12504	2.21037
.901	11.624	5.06648	.45490	.08235	.07815	-.00387	.00113	-.08362	.42897	.17232	2.48940
.901	13.846	5.02480	.57199	.08215	.07196	-.00355	-.00164	-.08276	.53571	.21665	2.47271
.899	15.613	4.98794	.66662	.08174	.06933	-.00291	-.00261	-.08233	.62002	.25613	2.40198
.899	17.754	4.92695	.77430	.08260	.07055	-.00488	-.00607	-.07546	.71224	.31478	2.26264
.899	20.037	4.85637	.87277	.08661	.08822	-.01702	-.01021	-.06861	.79027	.38040	2.07749
.899	22.272	4.77778									

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LA51 TABULATED SOURCE DATA  
 LARC8TPT-684 (LA-51) (B4F1M1) (W1E1S0) (V1)

PAGE 70

(RHV028)

PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10.000
AIRRN =	.000	BCFLAP =	-11.700
SFCBRK =	.000		

RUN NO. 97 / 0

MACH	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	
.978	5.14725	.38681	.13729	.16513	.00374	.00842	-.09912	-.38072	.15335	-2.48266	
.978	-2.397	5.15432	-.24133	.13723	.14346	.00772	.00821	-.10134	-.24071	.13832	-1.74031
.979	-.257	5.15086	-.08911	.13657	.12191	-.00154	.00780	-.09960	-.09400	.13326	-.70560
.981	2.075	5.13557	.05398	.13404	.10355	-.00312	.00716	-.09642	.04379	.13770	.31799
.981	4.295	5.11372	.19186	.13176	.08839	-.00261	.00719	-.09629	.17580	.15254	1.15248
.981	6.469	5.08076	.34612	.13161	.06826	-.00165	.00664	-.09145	.32157	.18361	1.75136
.980	8.907	5.03535	.48704	.13149	.04455	-.00270	.00427	-.08613	.45333	.22134	2.04817
.979	10.915	5.00540	.63256	.13172	.03019	-.00175	.00244	-.08626	.56509	.27415	2.13420
.979	13.343	5.00134	.75581	.12804	.02112	-.00177	.00113	-.08663	.69470	.32410	2.14345
.978	15.396	4.96338	.96169	.12655	.01233	-.00177	.00138	-.08557	.80986	.39150	2.06864
.979	17.712	4.84151	1.02602	.12752	-.00167	-.00951	-.00550	-.08440	.52141	.46901	1.96460
.979	19.392	4.77346	1.13659	.12640	-.00113	-.00669	-.00840	-.07684	1.01498	.54468	1.84507

RUN NO. 96 / 0

MACH	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	
1.199	5.16956	-.30504	.15969	.13503	-.00313	.00931	-.10128	-.09816	.17219	-1.73155	
1.199	-2.375	5.17204	-.16883	.15753	.00760	-.00330	.00791	-.09767	.16823	.15817	-1.06360
1.199	-.218	5.16367	-.01441	.15386	.07753	-.00156	.00599	-.09307	.02032	.15319	-.13263
1.200	2.273	5.14573	.12251	.15056	.05415	-.00319	.00457	-.08758	.11052	.15957	.69263
1.200	4.427	5.12317	.24330	.14821	.03697	-.00295	.00312	-.08390	.22550	.17475	1.28759
1.200	6.486	5.09329	.38005	.14617	.02120	-.00228	.00294	-.08239	.35326	.20252	1.74430
1.199	8.788	5.05107	.53609	.14276	.00133	-.00051	.00171	-.08039	.49728	.24595	2.02191
1.199	11.404	5.01507	.65121	.14079	-.01215	-.00691	.00146	-.08361	.601953	.29240	2.08458
1.199	13.607	4.94248	.77418	.13766	-.02323	-.00268	-.01168	-.08341	.71866	.34176	2.07965
1.199	15.598	4.92297	.88567	.13379	-.03093	-.00260	-.01379	-.08129	.80317	.39673	2.02421
1.199	17.700	4.86056	.99514	.13113	-.03361	-.00227	-.01798	-.07758	.8981	.46236	1.92666
1.199	19.923	4.79168	1.09696	.12850	-.03101	-.00311	-.01152	-.07626	.96770	.533360	1.81223

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## LA51 TABULATED SOURCE DATA

LARCCTPT-684 (LA-51) (B1F1M1) (ME1SD) (V1)

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(PHV001)

## PARAMETRIC DATA

BETA = .0000  
 AILRON = .0000  
 SPDRK = .0000

RUN NO. 10 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.349	-2.043	-.000004	7.95567	-.19106	-.16760	-.21207	-.21041
.349	.012	-.001314	7.93773	-.19528	-.16467	-.21302	-.20662
.348	2.045	-.003370	7.91533	-.19772	-.15944	-.21266	-.20292
.349	4.089	-.003356	7.94226	-.19896	-.15608	-.22095	-.20183
.349	6.128	-.003310	7.93777	-.19955	-.15286	-.22723	-.20141
.349	8.174	-.00029	7.93327	-.19918	-.14669	-.23210	-.20342
.348	10.242	-.001540	7.90189	-.20234	-.15449	-.23824	-.20754
.349	12.277	-.00165	7.93327	-.20583	-.16398	-.24585	-.21431
.349	14.338	-.000571	7.93776	-.21378	-.17506	-.24998	-.22318
.348	16.402	-.001384	7.89740	-.22153	-.19825	-.25409	-.23762
.348	18.462	-.000228	7.90188	-.23476	-.22471	-.25538	-.26079
.348	20.523	-.00137	7.88841	-.25520	-.25361	-.26725	-.28123

RUN NO. 9 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	-2.291	-.00591	29.82765	-.22011	-.19059	-.21829	-.22143
.801	-1.106	-.00181	29.85683	-.21676	-.18339	-.21847	-.21519
.801	2.094	.00475	29.81682	-.21564	-.17683	-.22164	-.21231
.801	4.302	.00282	29.86014	-.21409	-.17019	-.22714	-.21178
.801	6.519	.00240	29.83698	-.21550	-.16679	-.23651	-.21381
.801	8.716	-.00119	29.82675	-.22214	-.16898	-.25373	-.22358
.801	10.901	-.00206	29.85653	-.23568	-.16076	-.26710	-.23563
.801	13.146	-.00334	29.83758	-.25401	-.20334	-.28101	-.25158
.801	15.401	-.00197	29.83989	-.27557	-.23136	-.30241	-.27737
.801	17.619	-.00205	29.88109	-.29815	-.27072	-.31246	-.30354
.801	19.842	-.00226	29.84981	-.33630	-.32336	-.33860	-.33933
.801	21.991	-.00124	29.86014	-.38627	-.37663	-.40160	-.39923

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## LAS1 TABULATED SOURCE DATA

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LARCS TPT-684 (LA-51) (B1F1M1) (WAE1SC) (V1)

(PHV001)

## PARAMETRIC DATA

SUPPLY	0000	ELEVAT	0000
BETA	0	55°	0
ALBEDO	.010	55°	.010
REFLECT	0	55°	0
REFL	.010	55°	.010

## RUN NO. 8 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.900	-2.373	-.000461	34.03112	-.24224	-.21517	-.23517	-.23511
.900	-1.157	.000348	34.03243	-.23836	-.20745	-.22842	-.23069
.900	2.131	.000656	34.03156	-.23239	-.19535	-.22542	-.22683
.901	4.373	.000634	34.035847	-.23033	-.19912	-.21105	-.22565
.899	6.632	.000203	33.99127	-.23388	-.18807	-.23013	-.23152
.899	8.850	.000415	34.02284	-.24912	-.19745	-.27852	-.24728
.900	11.097	.000335	34.03375	-.27277	-.21438	-.28306	-.26556
.900	13.367	.000205	34.02718	-.29462	-.23059	-.31887	-.28857
.900	15.632	-.000315	34.02105	-.32379	-.25899	-.35143	-.31800
.899	17.884	-.000385	33.98426	-.35506	-.29479	-.36608	-.34454
.900	20.114	.000239	34.01667	-.40500	-.34566	-.41117	-.39137
.901	21.107	.000358	34.05650	-.43472	-.37641	-.43069	-.42147

## RUN NO. 7 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.357	-.011528	36.87376	-.39144	-.32962	-.41305	-.37547
.980	-.572	.00232	36.88330	-.38357	-.52405	-.39733	-.36681
.980	2.201	.000757	36.87889	-.37967	-.32350	-.39557	-.36383
.980	4.510	.000689	36.87376	-.39307	-.32911	-.39205	-.36581
.980	6.791	.001555	36.87447	-.39783	-.33699	-.40169	-.37787
.980	9.076	.001719	36.86350	-.42713	-.35567	-.43491	-.41240
.980	11.359	.001361	36.86212	-.45829	-.38638	-.47657	-.43765
.980	13.655	.001441	36.86202	-.49211	-.42086	-.51439	-.47179
.979	15.938	.001437	36.85512	-.52179	-.45615	-.54646	-.50669
.979	18.277	-.001342	35.85135	-.55456	-.51425	-.55800	-.54518
.980	20.559	-.001169	35.99319	-.58964	-.57771	-.59360	-.50235
.980	22.795	-.001597	35.86497	-.62530	-.60354	-.59321	-.63590

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## LA51 TABULATED SOURCE DATA

LARC8TPT-684 (LA-51) (B1F1M1) (WE1SD) (V1)

(FHVN001)

## PARAMETRIC DATA

BETA	ELEVTR	BOFLAP	SPDBRK
.0000	.0000	.0000	.0000

RUN NO. 6/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.382	-.000594	42.18766	-.35751	-.34416	-.34063	-.33244
1.201	-.038	.000050	42.18654	-.34890	-.34750	-.34092	-.33561
1.200	2.271	.00431	42.18664	-.35053	-.33765	-.34344	-.34373
1.200	4.593	.00423	42.18942	-.36244	-.34231	-.35479	-.35980
1.200	6.905	.00353	42.18737	-.37508	-.35445	-.36590	-.37125
1.200	9.208	-.00030	42.19322	-.38784	-.36378	-.37722	-.38255
1.200	11.549	-.001372	42.19879	-.39933	-.37930	-.39172	-.39917
1.200	13.881	-.00456	42.17724	-.40625	-.40796	-.41419	-.41419
1.200	16.195	-.00247	42.20639	-.42959	-.43501	-.43326	-.44214
1.199	18.478	-.00069	42.14751	-.45780	-.46017	-.46144	-.47327
1.199	20.726	-.00335	42.17992	-.47914	-.48346	-.48426	-.49819
1.199	22.976	-.00169	42.18058	-.50438	-.50503	-.51419	-.52542

LARC8TPT-684 (LA-51) (B1F1M1) (WE1SD) (V1)

(FHVN002)

## PARAMETRIC DATA

BETA	ELEVTR	BOFLAP	SPDBRK
.0000	.0000	.0000	.0000

RUN NO. 5/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.349	-2.061	-.00341	7.94687	-.18305	-.18305	-.21669	-.21549
.349	-.019	-.00071	7.96479	-.20475	-.17042	-.21386	-.20983
.349	2.015	.00103	7.96929	-.20133	-.17597	-.21421	-.21031
.350	4.063	-.00048	8.01412	-.19835	-.17174	-.21350	-.21025
.351	6.097	-.00090	8.04097	-.19676	-.17211	-.21840	-.21011
.350	8.146	-.00250	7.99615	-.19455	-.17211	-.22243	-.21023
.350	10.216	-.00142	7.98722	-.19477	-.17465	-.21985	-.20644
.350	12.250	-.00188	8.00514	-.19716	-.18034	-.21843	-.20833
.350	14.328	-.00237	7.99617	-.19584	-.19510	-.22477	-.22319
.349	16.384	-.00098	7.96931	-.21691	-.21513	-.23569	-.23463
.349	18.431	-.00107	7.95135	-.23347	-.24134	-.25342	-.26114
.351	21.405	-.00037	7.98722	-.24938	-.26552	-.27252	-.28487

## LA51 TABULATED SOURCE DATA

LARC8TPT-684 (LA-51) (B1F1M1 ) (ME1S9) (V1)

(FHV002)

## PARAMETRIC DATA

BETA	=	.0001	ELEVTR =	.000
ATLRON	=	.0001	BCFLAP =	-11.700
SPDBRK	=	.0001		

RUN NO. 4 / 0

MACH	ALPHA	BETA	Q(KFA)	CP1	CP2	CP3	CP4
.801	-2.339	-.00350	29.88751	-.21875	-.20261	-.22826	-.22033
.801	-1.132	.00360	29.86385	-.21362	-.19573	-.22478	-.21619
.801	2.059	.00539	29.88019	-.20825	-.18662	-.22102	-.21071
.801	4.667	.001486	29.87287	-.20551	-.18516	-.22208	-.20938
.801	6.478	.00317	29.86446	-.20543	-.18670	-.22452	-.20988
.801	8.705	.00150	29.80397	-.20935	-.19519	-.22772	-.21763
.801	10.872	-.00087	29.87789	-.21844	-.21943	-.23398	-.22969
.801	13.397	-.00142	29.86966	-.23348	-.22992	-.24423	-.24559
.801	15.353	.00184	29.86706	-.25918	-.26215	-.26991	-.27125
.801	17.569	.00172	29.86125	-.28618	-.29528	-.29737	-.30669
.801	19.789	.00321	29.83758	-.32055	-.32611	-.32982	-.34212
.801	21.917	-.00019	29.87408	-.37545	-.37927	-.38765	-.40432

RUN NO. 3 / 0

MACH	ALPHA	BETA	Q(KFA)	CP1	CP2	CP3	CP4
.901	-2.396	-.00210	34.03418	-.23667	-.21813	-.25182	-.23884
.901	-1.133	.00947	34.01864	-.21887	-.21262	-.22874	-.22494
.901	2.119	.00930	34.02477	-.21375	-.21488	-.22671	-.22116
.901	4.335	.00917	34.02280	-.20746	-.20126	-.22231	-.21775
.901	6.577	.00544	34.00638	-.22216	-.21124	-.23755	-.22524
.901	8.815	.00519	34.03528	-.24263	-.21515	-.25677	-.24126
.901	11.083	.00676	34.06262	-.26530	-.23279	-.27388	-.26364
.901	13.338	.00555	34.07159	-.27218	-.25877	-.27998	-.29198
.901	15.584	.00592	34.02018	-.29912	-.29393	-.31076	-.32451
.901	17.840	.00291	34.02937	-.33341	-.32213	-.35174	-.35111
.901	20.056	.00554	34.04841	-.38227	-.36769	-.39479	-.39596
.901	22.213	.00710	34.08274	-.46078	-.43499	-.47726	-.45710

LA51 TABULATED SOURCE DATA  
 LARCCTPT-684 (LA-51) (B1F1M1) (WIE1SD) (V1)

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(PHV002)

PARAMETRIC DATA

BETA = .000  
 ATLON = .000  
 SPDBRK = .000

RUN NO. 2/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.981	-2.417	-.00186	36.91176	-.39863	-.34594	-.42834	-.39226
.981	-.129	.00735	36.94422	-.39562	-.35813	-.42002	-.38541
.980	2.182	.01075	36.88631	-.38913	-.33228	-.40919	-.37535
.980	4.463	.01106	36.82269	-.38697	-.33533	-.40580	-.37464
.980	6.744	.00971	36.88321	-.39276	-.33508	-.40885	-.37633
.980	9.037	.01107	36.89121	-.410823	-.34350	-.41382	-.39411
.979	11.317	.00146	36.87731	-.43404	-.37312	-.44478	-.42166
.980	13.625	.00636	36.88756	-.46669	-.41325	-.47973	-.45466
.979	15.916	.00170	36.87219	-.50680	-.46098	-.51888	-.49232
.979	18.196	-.00043	36.86483	-.53641	-.50801	-.55660	-.53172
.980	20.502	.00303	36.87662	-.56136	-.56972	-.58009	-.57127
.979	22.740	-.001454	36.88316	-.60896	-.58888	-.61500	-.60908

RUN NO. 1/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.2011	-2.416	-.00615	42.19600	-.35770	-.34373	-.35571	-.34781
1.201	-.099	.00246	42.21103	-.34646	-.32962	-.35143	-.34069
1.201	2.222	.001751	42.21205	-.33775	-.31829	-.34709	-.33227
1.201	4.550	.00679	42.19731	-.34016	-.32470	-.34329	-.33103
1.201	6.888	.00745	42.20807	-.34999	-.33748	-.34526	-.34057
1.201	9.161	.001188	42.24795	-.36119	-.34901	-.35778	-.35693
1.201	11.517	-.00063	42.20723	-.36788	-.36576	-.37612	-.37895
1.200	13.848	.00002	42.21057	-.30644	-.39169	-.39465	-.39755
1.201	16.150	.00103	42.19748	-.41500	-.41799	-.42223	-.42204
1.201	18.428	-.00129	42.18292	-.44412	-.44618	-.45378	-.45447
1.201	20.666	-.00268	42.21595	-.46637	-.47010	-.47635	-.47826
1.201	22.959	.00101	42.20528	-.48789	-.48771	-.49535	-.49742

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LA51 TABULATED SOURCE DATA  
 LARC87PT-684 (LA-51) (B1F1M1) (W1E1S0) (V1)

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(PHV003)

PARAMETRIC DATA

BETA = .000  
 AIRLON = .000  
 SPDBRK = .000

RUN NO. 20/ 0

MACH	ALPHA	BETA	Q (KPA)	CF1	CF2	CF3	CF4
.350	-2.218	-.00328	7.98272	-.17581	-.14710	-.17931	-.18356
.350	-.167	-.00160	8.00961	-.17439	-.14474	-.17825	-.18014
.350	.061	-.00170	7.98719	-.17430	-.14326	-.17874	-.17828
.350	2.063	-.00187	7.99169	-.17232	-.14084	-.17911	-.17678
.350	3.894	-.00147	7.99616	-.17128	-.13982	-.18324	-.17433
.350	6.002	-.00211	7.99169	-.16932	-.15812	-.18055	-.17489
.350	8.048	-.00264	7.98721	-.16723	-.13951	-.19051	-.17311
.350	10.127	-.00334	7.99169	-.16932	-.14647	-.18055	-.17531
.349	12.120	-.00303	7.96927	-.17185	-.15675	-.18479	-.18009
.350	14.044	-.00294	7.99168	-.17703	-.17086	-.18946	-.18712
.350	16.491	-.00378	8.00065	-.18391	-.18942	-.19772	-.20006
.349	18.518	-.00163	7.96925	-.19591	-.20897	-.20792	-.21592
.349	20.438	-.00140	7.94682	-.21214	-.23126	-.22364	-.23591

RUN NO. 19/ 0

MACH	ALPHA	BETA	Q (KPA)	CF1	CF2	CF3	CF4
.801	-2.581	-.00723	29.86506	-.21296	-.17562	-.20808	-.19997
.800	-.368	-.00315	29.82535	-.19651	-.17206	-.21442	-.19454
.801	1.918	.00246	29.86415	-.19237	-.16722	-.21481	-.19180
.800	3.949	.00178	29.84170	-.18707	-.16331	-.21483	-.18933
.800	6.184	.00056	29.82856	-.18551	-.16336	-.20693	-.18924
.800	8.385	-.00194	29.83086	-.18625	-.16500	-.21755	-.19061
.801	10.677	-.00354	29.86736	-.18794	-.17233	-.21190	-.19417
.800	12.812	-.00555	29.80367	-.19386	-.18314	-.21255	-.21166
.800	14.888	-.00467	29.84811	-.21053	-.21037	-.21525	-.21757
.800	17.349	-.00215	29.85132	-.22348	-.23224	-.23791	-.24674
.800	19.458	-.00199	29.82795	-.25395	-.26335	-.26354	-.27589
.801	21.735	-.01249	29.88759	-.31457	-.32191	-.31778	-.31293

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LA51 TABULATED SOURCE DATA  
LARC(TPT--604 (LA-51) (B1F1M1 ) (W1E1S0) (V1)

PAGE 77

(PHVW03)

PARAMETRIC DATA

BETA = .000 ELEVTR = -10.0000  
ATLRON = .000 BOFLAP = -11.701  
SPDBRK = .000

RUN NO. 16/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.899	-2.667	-.00546	33.96542	-.25559	-.19500	-.26894	-.24999
.899	-.382	-.00246	33.99281	-.24495	-.19308	-.26266	-.23918
.900	1.810	.00515	34.02302	-.23588	-.18707	-.25821	-.23014
.899	3.909	.00566	33.97397	-.23145	-.18038	-.25681	-.22213
.899	6.317	.00227	34.00092	-.23227	-.17406	-.25959	-.22332
.899	0.556	.00175	33.99194	-.23632	-.17312	-.26685	-.22935
.900	10.928	-.00192	34.01361	-.24126	-.16202	-.26530	-.23373
.901	13.092	-.00093	34.05518	-.25213	-.19339	-.27774	-.26691
.901	15.341	-.00192	34.04097	-.27327	-.21946	-.29675	-.27030
.901	17.559	-.00238	34.00946	-.29544	-.25020	-.31987	-.29341
.899	19.746	.00096	34.00125	-.33995	-.29295	-.34212	-.32542
.899	21.569	-.00056	33.96388	-.39319	-.36435	-.36619	-.37766

RUN NO. 17/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.981	-2.566	-.00582	36.92928	-.40435	-.34646	-.37771	-.36612
.981	-.486	.00318	36.96098	-.39106	-.32691	-.36426	-.38768
.981	1.875	.00724	36.93661	-.39180	-.31510	-.35989	-.35392
.981	4.119	.00533	36.94057	-.40053	-.30637	-.37176	-.36009
.981	6.471	.00554	36.93441	-.41547	-.31145	-.39319	-.37335
.981	8.720	.00492	36.93368	-.43047	-.32344	-.42488	-.39259
.981	11.047	.00277	36.92198	-.45737	-.36134	-.45072	-.41829
.981	13.395	.00498	36.92634	-.47727	-.39508	-.47338	-.44241
.981	15.765	.00257	36.95224	-.49055	-.43396	-.50188	-.47289
.979	18.248	.00089	36.89191	-.51252	-.48447	-.50191	-.50584
.980	20.501	-.00192	36.91531	-.52318	-.52171	-.52886	-.53744
.980	22.548	-.01326	36.91010	-.55169	-.54502	-.56753	-.56518

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## LA51 TABULATED SOURCE DATA

LARRC8TP7-684 (LA-51) (B1F1M1) (W1E1SD) (V1)

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(PHV003)

## PARAMETRIC DATA

BETA =	.0000	ELEVTR =	-10,000
AIRRON =	.0000	BCFLAP =	-11,700
SPDBRK =	.0000		

RUN NO. 16/0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
1.200	-2.648	-.00669	42.20568	-.37409	-.36044	-.39120	-.38646
1.200	-.362	.00154	42.20176	-.36527	-.35593	-.38052	-.38286
1.200	2.052	.00675	42.18413	-.35266	-.34942	-.37534	-.35937
1.200	4.271	.00558	42.20148	-.35088	-.34995	-.37141	-.34632
1.200	6.928	.00540	42.19396	-.35865	-.35858	-.37418	-.36273
1.200	8.927	.00225	42.21493	-.36276	-.35627	-.36928	-.37368
1.200	11.451	-.00093	42.19535	-.37648	-.36646	-.38093	-.39128
1.199	13.710	.00078	42.19724	-.40871	-.40879	-.41489	-.42283
1.199	15.812	-.00507	42.21772	-.41988	-.41901	-.42491	-.43601
1.200	18.165	-.01267	42.19294	-.44290	-.43627	-.44690	-.45330
1.199	21.442	-.00212	42.18819	-.45250	-.43209	-.46585	-.47378
1.200	22.715	.00066	42.19189	-.47849	-.47503	-.49840	-.50555

LARRC8TP7-684 (LA-51) (B1F1M1) (W1E1SD) (V1)

(PHV004)

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10,000
AIRRON =	.000	BCFLAP =	-11,700
SPDBRK =	.000		

RUN NO. 25/0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.350	-2.104	5.02946	7.99164	-.17397	-.15427	-.19180	-.18875
.350	-.135	5.03389	7.98716	-.17359	-.15522	-.19190	-.18745
.350	1.979	5.03280	7.98267	-.17605	-.15296	-.19484	-.18567
.349	4.066	5.02287	7.96925	-.17681	-.15133	-.20129	-.18503
.349	6.181	5.01697	7.96924	-.17634	-.14615	-.20790	-.18513
.350	8.164	4.98336	7.98716	-.17359	-.14959	-.21451	-.18651
.350	10.270	4.95465	7.98271	-.17227	-.15578	-.21321	-.18755
.349	12.354	4.91932	7.96476	-.17265	-.1589	-.21613	-.18608
.349	14.312	4.88097	7.96924	-.17681	-.17015	-.19893	-.18975
.349	16.377	4.83564	7.96128	-.17653	-.17929	-.20110	-.19656
.349	18.406	4.78113	7.92441	-.19063	-.19191	-.21953	-.21213
.348	20.638	4.71900	7.93341	-.21842	-.21722	-.23869	-.22847

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LAS1 TABULATED SOURCE DATA  
 LARCOTPT-684 (LA-51) (B1F1M1) (M1E1SD) (V1)

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(FHV004)

PARAMETRIC DATA

BETA	=	5.000	ELEVTR	=	-10.000
AIRCON	=	.000	BDFLAP	=	-11.700
SFCBRK	=	.000			

RUN NO. 24 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	-2.522	5.13965	29.86876	-.19764	-.19011	-.21272	-.20555
.800	-.342	5.14743	29.83638	-.19726	-.19644	-.20775	-.20272
.800	1.848	5.14718	29.79194	-.19501	-.19861	-.20241	-.19796
.800	4.197	5.13505	29.83487	-.18907	-.19307	-.19320	-.19066
.800	6.331	5.11382	29.80217	-.17878	-.18420	-.18224	-.18441
.799	8.522	5.08726	29.77617	-.17942	-.18573	-.18162	-.18860
.800	15.767	5.05196	29.79164	-.18212	-.18930	-.18469	-.19381
.800	12.931	5.01586	29.81301	-.16642	-.19395	-.18772	-.19368
.800	15.040	4.97695	29.80758	-.20277	-.20746	-.20178	-.21973
.800	17.465	4.92685	29.83055	-.21725	-.22363	-.21914	-.22669
.800	19.752	4.86554	29.81682	-.24284	-.25553	-.25050	-.25764
.800	21.825	4.79138	29.82933	-.29562	-.31762	-.31544	-.31607

RUN NO. 23 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.901	-2.598	5.17136	34.02555	-.25208	-.20761	-.24205	-.24993
.901	-.400	5.18226	34.04437	-.25106	-.21113	-.24666	-.24892
.901	1.872	5.18290	34.08099	-.24615	-.20815	-.24197	-.24270
.899	4.227	5.17251	33.99660	-.23623	-.19984	-.24013	-.23910
.899	6.510	5.14489	33.99696	-.22858	-.18462	-.27843	-.24495
.899	8.875	5.11437	34.03572	-.23817	-.18099	-.28463	-.23875
.900	10.980	5.08132	34.07293	-.24225	-.19098	-.27723	-.23583
.900	13.323	5.04206	34.01967	-.25142	-.19769	-.27512	-.24442
.900	15.504	5.01124	34.01339	-.27509	-.21771	-.28161	-.25996
.899	17.786	4.95029	33.98664	-.29293	-.25397	-.20980	-.27653
.899	20.010	4.86392	33.96658	-.33835	-.31561	-.33549	-.32028
.899	22.157	4.77795	34.00112	-.39981	-.39257	-.40428	-.38546

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LA51 TABULATED SOURCE DATA  
 LARC8TPT-684 (LA-51) (B1F1M1) (M1E1S0) (V1)

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(PHV004)

PARAMETRIC DATA

RUN NO.	22/ 0	BETA	Q (KFA)	CP1	CP2	CP3	CP4
MACH	ALPHA						
.981	-2.614	5.19877	36.93559	-.39621	-.36171	-.40812	-.40174
.981	-.356	5.20953	36.93011	-.39561	-.35107	-.38777	-.38854
.980	1.974	5.20642	36.92261	-.39216	-.34577	-.38433	-.38174
.980	5.18877	5.18877	36.92338	-.38802	-.33701	-.38926	-.38005
.980	4.316	5.15086	36.89194	-.39744	-.32865	-.40978	-.39556
.980	7.456	5.13101	36.92124	-.42016	-.33538	-.42726	-.40743
.980	8.918	5.08691	36.86497	-.43915	-.35894	-.44685	-.42686
.979	11.293	5.04722	36.86824	-.45922	-.38310	-.47588	-.44098
.979	13.565	5.04722	36.86933	-.45238	-.40741	-.46863	-.44576
.979	15.847	5.00076	36.90658	-.48482	-.47164	-.47655	-.47048
.980	18.463	4.92949	36.91531	-.52741	-.52217	-.51471	-.50564
.980	20.447	4.87334	36.87876	-.57104	-.57312	-.55897	-.54833
.979	22.705	4.79461					

RUN NO. 21/ 0

RUN NO.	21/ 0	BETA	Q (KFA)	CP1	CP2	CP3	CP4
MACH	ALPHA						
1.199	-2.543	5.22788	42.18994	-.38015	-.37421	-.38982	-.39629
1.200	-.266	5.23100	42.20742	-.37118	-.36725	-.38381	-.39002
1.201	2.112	5.22217	42.21864	-.36962	-.36106	-.37519	-.36970
1.201	4.488	5.19986	42.21205	-.36748	-.35449	-.37243	-.37652
1.200	6.869	5.17279	42.20566	-.37690	-.36217	-.38014	-.38914
1.200	9.454	5.13702	42.21463	-.39714	-.37761	-.39991	-.39133
1.200	11.435	5.09940	42.20676	-.39782	-.37536	-.39738	-.40171
1.200	13.778	5.06674	42.26708	-.41170	-.39976	-.42832	-.40905
1.200	16.782	5.01931	42.22115	-.42137	-.40938	-.43764	-.41247
1.200	18.435	4.95929	42.21539	-.43817	-.43172	-.45515	-.43528
1.199	20.754	4.87914	42.21564	-.45910	-.45857	-.47996	-.47338
1.200	22.975	4.81115	42.21448	-.48610	-.47923	-.49534	-.48290

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## LA51 TABULATED SOURCE DATA

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LARC8TPT-684 (LA-51) (B1F1M1 ) (W1E1SD) (V1)

(PHV005)

## PARAMETRIC DATA

BETA = .000  
AILRDN = .000  
SPDBRK = .000

ELEVTR = -20.000  
BCFLAP = -11.700

RUN NO. 15/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.181	-.00505	7.98724	-.16841	-.11815	-.17170	-.17359
.350	-.137	-.00375	8.00068	-.16954	-.11889	-.17565	-.17377
.350	1.907	-.00265	8.00518	-.17133	-.11789	-.10125	-.17321
.350	3.941	-.00278	8.01861	-.17058	-.11443	-.18277	-.17105
.351	5.994	-.00500	8.02309	-.17283	-.11016	-.16501	-.17236
.351	8.028	-.00434	8.01860	-.17587	-.10554	-.18136	-.17246
.350	10.079	-.00532	7.99622	-.17717	-.10958	-.17951	-.17058
.350	12.141	-.00423	8.01860	-.17950	-.11631	-.17761	-.17105
.351	14.193	-.00344	8.02307	-.17518	-.12651	-.16079	-.17751
.350	16.237	-.00377	7.99618	-.16257	-.14053	-.18797	-.19172
.351	18.287	-.00390	8.01857	-.17011	-.14996	-.20481	-.21197
.350	20.360	-.00347	8.01860	-.16079	-.16493	-.21419	-.21884

RUN NO. 14/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	-2.725	-.01006	29.814981	-.24362	-.16419	-.24776	-.24928
.801	-.511	-.00158	29.801689	-.23927	-.15927	-.25805	-.25912
.801	1.685	.00200	29.800116	-.23705	-.15565	-.27199	-.25585
.801	3.920	.00112	29.86004	-.23295	-.15086	-.27577	-.25901
.801	6.143	-.00320	29.85072	-.23087	-.14926	-.27244	-.25770
.801	8.379	-.01345	29.82645	-.22877	-.15239	-.26622	-.24845
.801	10.630	-.00416	29.81682	-.22998	-.14765	-.26390	-.23983
.801	12.830	-.00456	29.85363	-.23237	-.14925	-.26095	-.22924
.799	15.039	-.00438	29.79695	-.22329	-.17089	-.22872	-.22220
.799	17.277	-.00394	29.79023	-.20741	-.19182	-.23458	-.23901
.799	19.487	-.00075	29.78410	-.23021	-.22383	-.26468	-.27198
.799	21.685	.00808	29.77737	-.28363	-.29162	-.31020	-.31540

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## LA51 TABULATED SOURCE DATA

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LARCFPT-684 (LA-51) (B1F1M1) (WE1SD) (V1)

(FHV005)

## PARAMETRIC DATA

BETA = .0000 ELEVTR = -20.000  
 AILRDN = .0000 BDFLAP = -11.700  
 SPDBRK = .0000

RUN NO. 13 / 0

MACH	ALPHA	BETA	Q (KFA)	CP1	CP2	CP3	CP4
.899	-2.882	-.00738	34.00025	-.30743	-.20357	-.29257	-.29747
.899	-1.571	.00120	33.97615	-.30754	-.19367	-.28979	-.28916
.900	1.692	.000399	34.02631	-.31085	-.18644	-.30760	-.29448
.899	3.956	.00505	33.99368	-.31170	-.18166	-.31807	-.30272
.899	6.255	.007481	33.98098	-.30816	-.17830	-.32052	-.30195
.900	8.558	.002228	34.01536	-.30165	-.17008	-.32329	-.28939
.899	10.831	-.00223	33.96760	-.29730	-.17497	-.32917	-.27906
.900	13.321	-.00164	34.04184	-.28925	-.18713	-.30713	-.27718
.899	15.337	-.00467	33.97987	-.29420	-.21263	-.32086	-.28991
.899	17.585	-.003482	33.99696	-.29051	-.24362	-.33298	-.30866
.900	19.828	.001312	34.00705	-.32509	-.29372	-.34239	-.35540
.898	21.947	.00136	33.95904	-.37180	-.33277	-.37876	-.39495

RUN NO. 12 / 0

MACH	ALPHA	BETA	Q (KFA)	CP1	CP2	CP3	CP4
.980	-2.657	-.00750	27.65874	-.41627	-.41619	-.43074	-.41139
.980	-4.456	-.00044	27.67048	-.39508	-.39733	-.40453	-.39569
.980	1.780	.00239	27.66971	-.37654	-.37413	-.38792	-.38005
.980	4.016	.00260	27.65582	-.36468	-.35677	-.36928	-.36347
.980	6.243	-.00105	27.66094	-.37854	-.35822	-.38216	-.37634
.980	8.460	-.00115	27.66579	-.45499	-.35478	-.42982	-.42462
.979	10.741	-.00010	27.65067	-.48359	-.36299	-.45850	-.45218
.979	12.934	.00034	27.65944	-.50648	-.38975	-.50625	-.47828
.979	15.162	.00112	27.65287	-.51490	-.42034	-.51582	-.49998
.979	17.384	.00012	27.64403	-.52120	-.45337	-.52381	-.51931
.979	19.576	-.00150	27.64991	-.52947	-.49694	-.53615	-.54875
.979	21.780	-.00258	27.64843	-.55113	-.53030	-.56798	-.58879

## LA51 TABULATED SOURCE DATA

LARC/TPT-604 (LA-51) (B1F1M1) (ME1SD) (V1)

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(PHV005)

## PARAMETRIC DATA

BETA	=	.000	ELEVTR	=	-20.000
ATLRCN	=	.000	BDFLAP	=	-11.700
SPDBRK	=	.000			

RUN NO. 11/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.604	-.000652	31.64900	-.40888	-.40330	-.41860	-.41469
1.201	-.333	.00128	31.65993	-.39245	-.38706	-.40372	-.40003
1.201	1.915	.000489	31.65334	-.37854	-.36648	-.40599	-.39772
1.200	4.161	.00259	31.62274	-.38527	-.36809	-.39941	-.39209
1.199	6.401	.00440	31.63366	-.40203	-.36980	-.40766	-.40449
1.199	8.621	.00181	31.63366	-.40973	-.39667	-.41920	-.42682
1.200	10.859	.00019	31.65122	-.41791	-.40423	-.42427	-.44375
1.200	13.102	.000017	31.64353	-.42335	-.40964	-.42699	-.45559
1.200	15.352	.00156	31.63702	-.43495	-.42284	-.44616	-.47453
1.199	17.568	-.00253	31.63607	-.45758	-.45106	-.47101	-.49140
1.199	19.750	-.000175	31.63125	-.47645	-.46923	-.48842	-.52161
1.198	21.936	-.00304	31.61743	-.49994	-.49086	-.50512	-.53047

LARC/TPT-604 (LA-51) (B1F1M1C3) (ME1SD) (V1)

(PHV006)

## PARAMETRIC DATA

BETA	=	.000	ELEVTR	=	.000
ATLRCN	=	.000	BDFLAP	=	-11.700
SPDBRK	=	.000			

RUN NO. 40/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.070	-.00398	7.99614	-.20614	-.18005	-.21692	-.21359
.350	-.016	-.00136	7.90268	-.20365	-.17913	-.21492	-.21065
.349	2.013	-.00102	7.95580	-.20101	-.17595	-.21186	-.20615
.350	4.072	-.00192	7.99163	-.19730	-.17377	-.21139	-.20336
.350	6.126	-.00303	7.99612	-.19570	-.17273	-.21316	-.20325
.350	8.165	-.00136	8.00956	-.19404	-.17198	-.21421	-.20432
.350	10.218	-.00191	7.90269	-.19799	-.17584	-.21634	-.20688
.350	12.273	-.00176	8.00959	-.20439	-.16135	-.21044	-.21324
.350	14.320	-.00175	7.98716	-.21533	-.16513	-.22941	-.22276
.349	16.400	-.00054	7.94603	-.23441	-.19219	-.24054	-.23901
.349	18.440	-.00232	7.93788	-.24938	-.19288	-.27489	-.25355
.349	20.513	-.00133	7.96925	-.22998	-.19778	-.29553	-.28172

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LA51 TABULATED SOURCE DATA  
 LARCS TPT-684 (LA-51) (B1F1M1C3) (WE1SD) (V1)

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(PHV006)

PARAMETRIC DATA

BETA = .0000  
 AIRRN = .0000  
 SPDBRK = .0000

RUN NO. 39/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.800	-2.343	-.00101	29.80799	-.21937	-.20562	-.22851	-.22136
.800	-.126	-.00277	29.82815	-.21267	-.19807	-.22307	-.21681
.800	2.084	.00096	29.79926	-.20540	-.19270	-.21683	-.21158
.799	4.298	.00148	29.76623	-.20335	-.19126	-.21604	-.21281
.801	6.541	.00036	29.84449	-.20549	-.19232	-.22220	-.21867
.801	8.736	-.00114	29.84770	-.21027	-.19469	-.23151	-.22437
.801	10.967	-.00088	29.80217	-.22181	-.20301	-.24711	-.23729
.801	13.158	.00164	29.83457	-.23686	-.21632	-.26377	-.25355
.801	15.417	.00048	29.79324	-.25247	-.24450	-.27421	-.27368
.801	17.654	.00094	29.80570	-.28158	-.28118	-.29391	-.30911
.801	19.866	.00057	29.79926	-.31511	-.31584	-.33184	-.34398
.801	22.037	.00087	29.79515	-.36015	-.35630	-.37650	-.38981

RUN NO. 38/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.900	-2.412	-.00081	34.03856	-.22637	-.22369	-.23091	-.23091
.900	-.138	.00192	34.02674	-.21427	-.21351	-.21694	-.21694
.900	2.147	.00295	34.01652	-.21958	-.21927	-.21613	-.21713
.900	4.399	.00059	34.01536	-.25892	-.21409	-.21011	-.21892
.900	6.651	.00468	34.00222	-.22052	-.20340	-.23669	-.23649
.899	8.914	.00413	33.98919	-.23922	-.21154	-.25991	-.24661
.899	11.166	.00714	34.03659	-.26201	-.22778	-.28011	-.26460
.901	13.438	.00173	34.05366	-.28212	-.24706	-.30174	-.28973
.901	15.725	.00478	34.02871	-.29661	-.28141	-.31211	-.32417
.899	18.005	.00644	33.99696	-.32657	-.32130	-.34240	-.35343
.901	20.222	.00797	34.02277	-.39040	-.37506	-.41132	-.45152
.901	22.403	.01315	34.01339	-.44402	-.42350	-.48470	-.45258

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## LAS1 TABULATED SOURCE DATA

LARC8TP7-684 (LA-51) (B1F1M1C3) (WIE1SD) (V1)

(PHV006)

## PARAMETRIC DATA

		PARAMETRIC DATA					
		BETA = .000	ELEVTR = .000	BDFLAP = .000	SPDBRK = .000		
RUN NO.	37 / 0						
MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.403	-.01116	36.88616	-.39213	-.34123	-.42732	-.39202
.980	-.115	.00059	36.87963	-.38940	-.33211	-.41654	-.38868
.980	2.224	.01735	36.88983	-.38181	-.32721	-.41437	-.37518
.980	4.524	.01692	36.87594	-.37556	-.32444	-.39325	-.36756
.979	6.856	.00795	36.85397	-.37977	-.32370	-.39112	-.37021
.979	9.161	.01188	36.84740	-.39445	-.33363	-.39966	-.38424
.980	11.472	.00758	36.88473	-.43598	-.36745	-.44758	-.41735
.979	13.766	.01985	36.83564	-.46788	-.39606	-.47883	-.44587
.979	16.075	.01204	36.84589	-.50020	-.42838	-.51816	-.48139
.981	18.404	.01541	36.81979	-.52471	-.45598	-.54148	-.50984
.979	20.649	.01964	36.85759	-.53952	-.48844	-.56161	-.54111
.981	21.323	.01728	36.91918	-.54292	-.49821	-.56904	-.54687
RUN NO.	36 / 0						
MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.2011	-2.421	-.01513	42.16872	-.35397	-.34133	-.35654	-.34124
1.2011	-.076	-.00354	42.17383	-.34317	-.32826	-.35013	-.33985
1.199	2.269	.00202	42.17158	-.32375	-.31621	-.33661	-.32858
1.2011	4.625	.00048	42.17614	-.32110	-.32371	-.32888	-.32594
1.2011	6.952	.00388	42.17420	-.34160	-.34004	-.34535	-.34354
1.2011	9.285	.00274	42.17671	-.35903	-.35260	-.36017	-.36244
1.2011	11.631	.00082	42.17614	-.36674	-.36490	-.37286	-.37913
1.199	13.969	.00305	42.16396	-.39501	-.38053	-.39629	-.39522
1.199	16.301	.00857	42.16332	-.41299	-.40848	-.41612	-.40559
1.199	18.582	.00955	42.20443	-.42244	-.43363	-.44828	-.46594
1.199	20.888	.01099	42.15059	-.44364	-.45842	-.47718	-.49674
1.199	23.202	.00537	42.16851	-.47366	-.47559	-.48474	-.47903

## LA51 TABULATED SOURCE DATA

LAR88TP-684 (LA-51) (B1F1M1C3) (W1E1S0) (V1)

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(FHV037)

## PARAMETRIC DATA

BETA	=	.0000	ELEVTR =	-10.000
ATLROW	=	.0000	BCFLAP =	-11.700
SFDBRK	=	.0000		

RUN NO. 35 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.169	-.00320	8.00518	-.17768	-.14762	-.18184	-.18338
.352	-.264	-.00190	8.07686	-.17474	-.14635	-.18025	-.18097
.351	.164	-.00191	8.05444	-.17381	-.14488	-.17935	-.18053
.351	1.965	-.00110	8.03205	-.17288	-.14344	-.18077	-.17962
.351	3.954	-.00094	8.04998	-.17110	-.14356	-.18131	-.17551
.351	5.973	-.00044	8.05894	-.17044	-.14573	-.18205	-.17437
.352	8.036	-.00127	8.07236	-.16923	-.14735	-.18315	-.17548
.351	10.170	-.00271	8.04999	-.17063	-.15707	-.18458	-.17923
.352	12.070	-.00183	8.06342	-.17315	-.16751	-.18708	-.18732
.352	14.187	-.00059	8.06791	-.17913	-.17392	-.19956	-.19933
.352	16.411	-.00015	8.06344	-.19371	-.16890	-.22439	-.21015
.351	18.438	.00198	8.05895	-.20830	-.16866	-.22485	-.22239
.351	20.528	.00332	8.05500	-.22163	-.16825	-.24579	-.22636

RUN NO. 34 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	-2.623	-.01194	29.87619	-.20011	-.17797	-.20517	-.19775
.802	-.511	-.00593	29.92808	-.19690	-.17366	-.20409	-.19519
.801	1.776	.00057	29.87438	-.19206	-.16734	-.20191	-.19148
.801	4.409	.00123	29.87849	-.18787	-.16426	-.19899	-.18995
.801	6.218	-.00006	29.85343	-.18612	-.16555	-.19775	-.19198
.801	8.387	.00077	29.87789	-.18574	-.16966	-.19698	-.19523
.801	10.685	-.00062	29.88781	-.18518	-.17362	-.19692	-.19756
.800	12.759	-.00101	29.83398	-.19152	-.17816	-.20454	-.20278
.801	15.024	.00003	29.86857	-.19625	-.19318	-.21655	-.21503
.801	17.418	.00317	29.87649	-.21524	-.22124	-.23019	-.233874
.801	19.473	.00676	29.88932	-.24842	-.25653	-.26311	-.27258
.801	21.955	.00399	29.83648	-.29049	-.29955	-.31088	-.32466

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LAS1 TABULATED SOURCE DATA  
LARC8TFT-684 (LA-51) (61F1M1C3) (WIE1SD) (V1)

PAGE 87

(PHW007)

PARAMETRIC DATA

BETA = .000  
ATLRCN = .000  
SPDRK = .000

RUN NO. 33 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.900	-2.732	-.01245	34.02521	-.25026	-.19642	-.26255	-.24601
.901	-.514	-.00142	34.05562	-.24041	-.19027	-.25680	-.23598
.901	1.799	.00153	34.05409	-.23180	-.18000	-.24720	-.22496
.901	4.193	.00313	34.05125	-.22994	-.18174	-.24435	-.21847
.900	6.324	.00257	34.01120	-.23153	-.18096	-.24563	-.21927
.900	8.627	.00125	34.01021	-.23304	-.18092	-.25007	-.22575
.900	10.869	.00204	34.04272	-.23807	-.18465	-.27336	-.23563
.899	13.139	.00336	33.98185	-.25434	-.19601	-.28713	-.25163
.899	15.403	.00194	33.97943	-.26966	-.22052	-.30397	-.27000
.899	17.691	.00223	33.99214	-.29327	-.25970	-.32101	-.29742
.899	19.952	.00949	33.99740	-.33765	-.31613	-.36820	-.34367
.899	22.369	.01003	33.96233	-.39156	-.37188	-.41033	-.39281

RUN NO. 32 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.979	-2.800	-.01505	36.89848	-.40015	-.34040	-.37446	-.36485
.981	-.492	-.00442	36.95224	-.38477	-.31828	-.36494	-.35333
.981	1.839	.00222	36.95588	-.36508	-.30896	-.36057	-.35364
.981	4.188	.00436	36.92154	-.36623	-.30129	-.37157	-.35404
.980	6.581	.00623	36.88761	-.39353	-.30196	-.39476	-.3614
.981	8.816	.00323	36.87807	-.40355	-.30868	-.42098	-.38065
.980	11.230	.00492	36.88466	-.42231	-.33510	-.45062	-.40416
.979	13.616	.00697	36.86341	-.45319	-.37250	-.48565	-.43728
.981	15.916	.01249	36.89923	-.46785	-.39438	-.49150	-.44907
.980	18.049	.01255	36.89561	-.47013	-.41336	-.48659	-.45739
.980	20.335	.02009	36.91386	-.50270	-.44414	-.49827	-.48282
.980	22.936	.01347	36.93364	-.52296	-.48201	-.53541	-.53122

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## LARC TABULATED SOURCE DATA

LARC8TP-T-684 (LA-51) (B1F1M1C3) (W1E1S1) (V1)

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(PHN007)

## PARAMETRIC DATA

BETA = .0000 ELEVTR = -10.000  
 AIRRON = .0000 BDFLAP = -11.700  
 SPDBRK = .0000

RUN NO. 31/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.747	-.01805	42.21363	-.37334	-.35952	-.38906	-.39411
1.200	-.395	-.00431	42.19322	-.36553	-.35440	-.37645	-.38276
1.200	1.928	.00155	42.19935	-.35171	-.34652	-.36141	-.35732
1.201	4.332	.00167	42.21382	-.34845	-.34069	-.35342	-.35700
1.200	6.665	.00278	42.20426	-.35350	-.34572	-.36542	-.35723
1.200	9.059	.00381	42.21633	-.36068	-.34630	-.37125	-.36368
1.200	11.297	.00366	42.20639	-.35712	-.35404	-.37190	-.37322
1.200	13.790	.00213	42.21232	-.37625	-.36827	-.38109	-.38784
1.201	16.031	.00750	42.26667	-.39735	-.39728	-.40562	-.41634
1.200	18.444	.01198	42.23228	-.40931	-.42019	-.42333	-.43843
1.199	20.601	.01286	42.20354	-.40952	-.42646	-.43200	-.44748
1.200	22.902	.01351	42.20676	-.43668	-.44194	-.47005	-.45426

LARC8TP-T-684 (LA-51) (B1F1M1C3) (W1E1S1) (V1)

(PHN008)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 AIRRON = .000 BDFLAP = -11.700  
 SPDBRK = .000

RUN NO. 30/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.351	-2.128	5.03114	8.05444	-.17638	-.15582	-.19407	-.19173
.350	-.008	5.03578	8.00965	-.17312	-.15526	-.19278	-.18809
.350	1.862	5.03272	8.00516	-.17368	-.15535	-.19224	-.18491
.350	4.032	5.02165	8.01413	-.17678	-.15331	-.19737	-.18424
.350	4.847	5.01621	8.01861	-.17950	-.15182	-.19679	-.18461
.350	8.191	4.98336	8.01412	-.18101	-.15471	-.20394	-.18424
.350	11.075	4.93899	8.00518	-.17321	-.16706	-.21927	-.19008
.350	12.258	4.91882	8.00068	-.17472	-.17559	-.20932	-.19816
.350	14.401	4.87564	8.02310	-.19114	-.18539	-.20359	-.19949
.350	16.564	4.82537	8.00518	-.20144	-.18439	-.22155	-.20978
.350	18.555	4.77296	8.04551	-.21496	-.17649	-.24477	-.21669
.350	21.591	4.71528	7.99172	-.23194	-.18798	-.25392	-.22517

## LA51 TABULATED SOURCE DATA

LARC8PT-684 (LA-51) (B1F1MC3) (W1E19D) (V1)

(PHVNE00)

## PARAMETRIC DATA

BETA = 5.000  
 AILRDN = .000  
 SPDBRK = .000

BDFLAP = -10.000  
 BDFLAP = -11.700

RUN NO. 29/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.8000	-2.575	5.14541	29.84661	-1.19986	-1.18910	-2.21085	-2.00826
.8000	-3.04	5.15066	29.83377	-1.19552	-1.19546	-2.20437	-1.19928
.801	1.911	5.14734	29.88128	-1.19436	-1.19920	-2.20043	-1.19523
.800	4.412	5.12928	29.83257	-1.19710	-1.19308	-2.19619	-1.19211
.801	6.486	5.10958	29.85833	-1.18554	-1.18854	-2.18974	-1.18894
.801	8.916	5.07524	29.82675	-1.18205	-1.18733	-2.18916	-2.19428
.800	10.808	5.04565	29.83728	-1.18514	-1.18702	-2.19212	-2.19938
.800	13.328	4.99718	29.82875	-1.1945	-1.18795	-2.19886	-2.20038
.800	15.239	4.96146	29.82996	-2.0539	-1.19649	-2.21364	-2.21555
.800	17.553	4.901703	29.85423	-2.2984	-2.22598	-2.22117	-2.23715
.800	19.788	4.85537	29.801961	-2.6844	-2.26378	-2.26346	-2.28033
.800	22.038	4.79013	29.81772	-3.0727	-2.29653	-2.30376	-2.31629

RUN NO. 28/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.911	-2.654	5.17771	34.03769	-2.25108	-2.21139	-2.24445	-2.25453
.911	-2.283	5.18352	34.03353	-2.24295	-2.21108	-2.24365	-2.24386
.900	.105	5.18551	34.01621	-2.24117	-2.21062	-2.24155	-2.24219
.901	2.198	5.18124	34.04578	-2.23821	-2.21023	-2.24169	-2.23980
.911	4.473	5.16491	34.06131	-2.22970	-2.20378	-2.24533	-2.23660
.911	6.778	5.13631	34.05562	-2.22720	-2.18753	-2.26790	-2.23344
.900	8.986	5.10763	34.01169	-2.23664	-2.18892	-2.25931	-2.23150
.900	11.207	5.07249	34.00464	-2.24980	-2.19305	-2.26519	-2.24141
.899	13.547	5.03053	33.99609	-2.26105	-2.20249	-2.26317	-2.24821
.900	15.631	4.99147	34.00464	-2.27439	-2.22592	-2.28158	-2.26218
.900	18.019	4.94012	34.01879	-3.00115	-2.26933	-2.30271	-2.26999
.899	20.404	4.87722	33.99257	-3.3609	-2.30697	-2.35448	-2.32770
.900	22.438	4.80245	34.01222	-3.38141	-2.34018	-2.40659	-2.37567

## LA51 TABULATED SOURCE DATA

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LARCSTPT-864 (LA-51) (B1F1M1C3) (WE1S0) (V1)

(FHV008)

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-19.000
AILRON =	.000	BUFLAP =	-11.700
SFDISK =	.000		

RUN NO. 27/ 0

MACH	ALPHA	BETA	Q (KFA)	CP1	CP2	CP3	CP4
.980	-2.594	5.20837	36.91684	-.40294	-.35967	-.39468	-.39630
.980	- .331	5.21031	36.89709	-.39203	-.34197	-.38738	-.38104
.981	.119	5.21130	36.94130	-.39662	-.34691	-.38726	-.38665
.981	2.702	5.19983	36.92198	-.38775	-.33967	-.38236	-.37708
.981	4.728	5.18331	36.93951	-.38833	-.33996	-.38054	-.37857
.980	6.933	5.15377	36.90078	-.39380	-.33683	-.40196	-.38453
.980	9.266	5.111626	36.91125	-.40899	-.33480	-.43078	-.40030
.980	11.792	5.06576	36.91539	-.42868	-.35563	-.46288	-.42024
.980	14.716	5.01134	36.89411	-.44191	-.39558	-.47303	-.43771
.980	16.964	4.96154	36.89854	-.45774	-.42619	-.47019	-.44454
.979	18.679	4.90888	36.87873	-.45877	-.41845	-.49682	-.45350
.980	20.714	4.86034	36.89634	-.47449	-.43168	-.51119	-.47133
.980	22.965	4.78757	36.91753	-.53018	-.47008	-.53234	-.51078

RUN NO. 26/ 0

MACH	ALPHA	BETA	Q (KFA)	CP1	CP2	CP3	CP4
1.200	-2.583	5.23489	42.23395	-.37814	-.37211	-.38556	-.38279
1.200	- .105	5.23324	42.21048	-.37643	-.36553	-.38569	-.38950
1.201	2.137	5.22078	42.21038	-.37016	-.36151	-.37321	-.38164
1.200	4.557	5.19809	42.20695	-.36578	-.35466	-.37484	-.37354
1.200	6.857	5.16638	42.21389	-.37011	-.35638	-.38749	-.37891
1.200	9.303	5.13037	42.21772	-.38220	-.37136	-.38446	-.38902
1.200	10.458	5.10945	42.22737	-.38715	-.37567	-.39118	-.35378
1.201	13.653	5.04888	42.23239	-.39032	-.39223	-.40369	-.41199
1.200	16.086	4.99467	42.21493	-.40211	-.41763	-.41758	-.40331
1.200	18.676	4.91809	42.22022	-.41210	-.41746	-.41778	-.41291
1.199	20.978	4.84748	42.18660	-.42187	-.40960	-.43916	-.42939
1.200	23.338	4.77733	42.20194	-.46398	-.44388	-.48761	-.46524

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## LA51 TABULATED SOURCE DATA

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LARC8TPY-684 (LA-51) (B1F1M1C4) (W1E1S2) (W1)

(PHN/DP9)

## PARAMETRIC DATA

BETA = .000 ELEVTR = .000  
 AILRDN = .000 BDFLAP = -11.700  
 SPDBRK = .000

RUN NO. 63/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.901	-2.368	-.01169	34.06109	-.22426	-.22260	-.22531	-.23406
.900	-.089	-.00120	34.02434	-.21575	-.21447	-.21793	-.22614
.900	2.178	.00229	34.03615	-.21026	-.20817	-.21421	-.22176
.900	4.455	.00421	34.02915	-.20653	-.20452	-.21414	-.22247
.901	6.727	.00475	34.06037	-.21681	-.20285	-.22704	-.23148
.900	9.003	.00383	34.01054	-.23087	-.21632	-.25428	-.25075
.900	11.251	.00408	34.01449	-.25213	-.22134	-.26330	-.26785
.901	13.556	.00864	34.04709	-.26981	-.24208	-.28527	-.28283
.900	15.865	.012897	34.02718	-.28037	-.27120	-.29185	-.30945
.900	18.118	.01465	34.02215	-.31129	-.30850	-.33975	-.34206
.899	20.350	.00754	33.96842	-.36501	-.36695	-.41953	-.40550
.900	22.494	.01930	34.01595	-.44733	-.43592	-.46886	-.46769

RUN NO. 82/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.369	-.01234	36.89121	-.39393	-.34364	-.41657	-.38924
.981	-.056	-.00144	36.93367	-.38847	-.35537	-.40727	-.37969
.981	2.278	.00417	36.94212	-.37876	-.333983	-.39496	-.37086
.980	4.613	.00492	36.98983	-.37243	-.32497	-.38551	-.36372
.980	6.948	.00484	36.89466	-.37351	-.32575	-.38455	-.36471
.980	9.274	.01037	36.87442	-.38837	-.33462	-.39654	-.37710
.980	11.581	.01560	36.87882	-.40898	-.35749	-.41294	-.39508
.979	13.919	.00669	36.87222	-.43383	-.38294	-.43541	-.41569
.980	16.263	.00845	36.90073	-.45992	-.40834	-.47511	-.44641
.980	18.579	.01915	36.91950	-.49575	-.44159	-.51293	-.47969
.980	20.836	.01328	36.92704	-.52040	-.46330	-.55001	-.51460
.980	21.411	.01388	36.89423	-.53594	-.47986	-.55551	-.52923

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## LA51 TABULATED SOURCE DATA

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LARC81PT-684 (LA-51) (B1F1M1CA) (M1E1SD) (V1)

(PHV009)

## PARAMETRIC DATA

BETA = .0000 ELEVTR = .0000  
 AILRON = .0000 BCFLAP = -11.700  
 SPDBRK = .0000

RUN NO. 85 / 0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.349	-2.066	-.00371	7.95577	-.20880	-.18269	-.22191	-.22302
.350	-.098	-.00322	7.97821	-.20445	-.17937	-.21800	-.21722
.350	2.039	-.00119	8.00959	-.19990	-.17540	-.21434	-.21216
.349	4.083	-.00174	7.91373	-.19936	-.17476	-.21576	-.20933
.349	6.157	-.00193	7.97374	-.19842	-.17476	-.21482	-.20886
.350	8.197	-.00304	7.97824	-.19737	-.17657	-.21564	-.21063
.350	10.254	-.00365	7.97823	-.20067	-.18078	-.21941	-.21345
.350	12.299	-.00302	7.97823	-.20397	-.19226	-.22035	-.22287
.350	14.371	-.00152	7.98719	-.21082	-.20640	-.22717	-.23626
.349	16.457	-.00015	7.96926	-.22074	-.22285	-.24372	-.24904
.349	18.489	.00021	7.96926	-.24531	-.23321	-.26448	-.26449
.349	20.546	.00061	7.96926	-.24815	-.24497	-.30648	-.28768

RUN NO. 84 / 0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.800	-2.309	-.01201	29.81973	-.21389	-.20185	-.22335	-.22431
.800	-.083	-.00280	29.83989	-.20341	-.19746	-.21061	-.21636
.800	2.132	-.00097	29.81279	-.20036	-.19317	-.20832	-.21458
.800	4.380	.00229	29.84340	-.19948	-.19140	-.20907	-.21559
.800	6.595	.00252	29.84630	-.20552	-.19315	-.21901	-.22161
.800	8.841	-.00067	29.79374	-.21507	-.20725	-.23337	-.23028
.799	11.046	-.00012	29.79143	-.22254	-.21098	-.24058	-.23975
.800	13.265	.00123	29.83538	-.23335	-.21947	-.25232	-.25025
.800	15.500	.00541	29.83989	-.25288	-.24873	-.26568	-.27753
.800	17.772	.00857	29.81622	-.27340	-.27947	-.28896	-.31036
.800	19.997	.00972	29.83407	-.30834	-.31374	-.32535	-.34405
.800	22.168	.01126	29.81622	-.36333	-.36512	-.39440	-.40773

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## LA51 TABULATED SOURCE DATA

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## LARC8TP7-604 (LA-51) (B1F1M1C4) (ME1SD) (V1)

(FHV009)

## PARAMETRIC DATA

BETA = .000  
 AILRDN = .000  
 SFDBRK = .000

RUN NO. 81/0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
1.2000	-2.387	.01707	42.19081	-.36054	-.34223	-.35908	-.35138
1.2000	-.021	.00595	42.19768	-.34685	-.32910	-.35482	-.34410
1.2000	2.315	.00287	42.18877	-.33694	-.32068	-.34692	-.33332
1.2000	4.712	.00132	42.20018	-.32148	-.32057	-.33006	-.32010
1.2011	7.046	.00156	42.23525	-.32898	-.33269	-.33399	-.33328
1.2011	9.398	.00128	42.19600	-.35298	-.35159	-.35447	-.36182
1.199	11.743	-.00020	42.17817	-.36155	-.36206	-.36907	-.37258
1.2000	14.111	.00230	42.21639	-.37533	-.37723	-.38740	-.39800
1.2000	16.446	.00761	42.19126	-.39613	-.39713	-.40228	-.41198
1.2011	18.771	.01130	42.21363	-.42453	-.42188	-.44251	-.43324
1.2011	21.095	.01342	42.19220	-.45941	-.45801	-.46948	-.46667
1.2000	22.212	.01225	42.19183	-.47204	-.47779	-.48326	-.46621

## LARC8TP7-684 (LA-51) (B1F1M1C4) (ME1SD) (V1)

(FHV010)

## PARAMETRIC DATA

BETA = .000  
 AILRDN = .000  
 SFDBRK = .000

RUN NO. 90/0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.350	-2.158	-.00380	8.00071	-.17658	-.14795	-.16307	-.18447
.350	-.076	-.00231	8.01855	-.1432	-.14809	-.16561	-.16266
.351	.127	-.00318	8.03207	-.17403	-.14692	-.16237	-.16189
.351	1.950	-.00047	8.02760	-.17272	-.14373	-.18200	-.17072
.350	4.011	.00053	7.99623	-.16961	-.14381	-.18270	-.17518
.350	6.115	-.00072	8.01620	-.16943	-.14553	-.18391	-.17498
.350	8.208	-.00015	8.00321	-.16896	-.14834	-.18297	-.17498
.350	10.417	-.00153	7.99624	-.17244	-.15835	-.18041	-.18081
.350	12.251	-.00085	8.00968	-.16015	-.17447	-.18756	-.19130
.350	14.144	-.00072	7.99175	-.19751	-.19222	-.19974	-.20206
.350	16.428	.00110	7.98279	-.21661	-.20605	-.21801	-.21640
.349	18.527	.00160	7.97502	-.22345	-.21569	-.24499	-.25196
.350	20.475	.00174	7.97031	-.23701	-.22121	-.23361	-.25747

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## LAS1 TABULATED SOURCE DATA

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LARCCPT-084 (LA-91) (B1F1M1C4) (WE1SD) (V1)

(PHV010)

## PARAMETRIC DATA

BETA	=	.000	ELEVTR =	-10.000
AILRON	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 89/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.800	-2.475	-.01185	29.84139	-.19822	-.17684	-.20492	-.19829
.800	-.282	-.00410	29.84981	-.19527	-.17552	-.20424	-.19497
.800	1.812	-.00094	29.85423	-.19159	-.16773	-.20345	-.19180
.800	4.190	.00035	29.85102	-.18832	-.16586	-.20120	-.19043
.800	6.337	-.00045	29.84751	-.18557	-.16701	-.19820	-.19045
.801	8.624	.00004	29.86065	-.18625	-.17260	-.19850	-.19390
.801	10.839	.00001	29.85072	-.18580	-.18031	-.19541	-.19749
.801	13.121	.00254	29.84109	-.18664	-.18654	-.19925	-.20408
.801	15.275	.00552	29.82535	-.20046	-.20106	-.20741	-.21803
.801	17.855	.01757	29.86736	-.22568	-.22880	-.23095	-.24303
.801	19.691	.01785	29.85363	-.25138	-.25603	-.26152	-.28201
.799	21.932	.00578	29.78590	-.29376	-.29736	-.31081	-.32774

RUN NO. 88/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.899	-2.644	-.01469	33.98054	-.24407	-.19884	-.24328	-.24328
.899	-.370	-.00469	33.99194	-.23590	-.19535	-.25309	-.23414
.899	1.966	.00194	33.99566	-.23056	-.18828	-.24720	-.22749
.901	4.337	.00148	33.99522	-.22613	-.18321	-.24422	-.22027
.901	6.587	.00149	33.94087	-.22649	-.18229	-.24915	-.22110
.898	8.580	.00176	33.98842	-.22695	-.18072	-.25256	-.22279
.899	11.114	.00051	33.99127	-.23890	-.18985	-.25863	-.23183
.901	13.618	.00288	34.01690	-.25942	-.20140	-.26440	-.24457
.898	15.682	.00777	33.95203	-.26956	-.22044	-.26723	-.25496
.900	17.956	.00607	34.01715	-.29050	-.24744	-.30075	-.28866
.898	21.039	.01323	33.94676	-.34515	-.32586	-.37196	-.35637
.901	22.425	.02183	34.03046	-.38702	-.36760	-.40123	-.39126

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LA51 TABULATED SOURCE DATA  
LARC-BTPT-684 (LA-51) (B1F1MC4) (WE1SD) (V1)

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(FWND10)

PARAMETRIC DATA

BETA =	.000	ELEVTR =	-10.000
ATLRON =	.000	BDFLAP =	-11.700
SPDBRK =	.000		

RUN NO. 87 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.979	-2.454	-.00946	27.63311	-.38673	-.32954	-.36515	-.35619
.980	-.213	.00016	27.65072	-.36772	-.30833	-.35814	-.34946
.980	2.018	.00290	27.66903	-.37416	-.30557	-.36186	-.34911
.979	4.283	.00344	27.63532	-.37419	-.30022	-.36922	-.34774
.979	6.519	.00439	27.63900	-.38113	-.30810	-.37902	-.35113
.979	8.755	.00310	27.63827	-.39137	-.31897	-.39360	-.36624
.979	11.013	.00523	27.63015	-.40812	-.33752	-.40936	-.38198
.978	13.242	.00723	27.60450	-.42300	-.35466	-.42713	-.3976
.980	15.477	.00738	27.67554	-.43640	-.37759	-.44807	-.41716
.980	17.726	.01156	27.64487	-.45019	-.41021	-.45233	-.43129
.980	19.951	.01141	27.67046	-.47765	-.41852	-.46860	-.45652
.979	22.102	.01195	27.63242	-.50114	-.45337	-.50948	-.49951

RUN NO. 86 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.199	-2.411	-.01118	31.62291	-.36766	-.35682	-.38002	-.36444
1.200	-.154	-.00178	31.62270	-.36025	-.35141	-.36858	-.37586
1.200	2.095	.00108	31.63248	-.34710	-.34187	-.35390	-.35538
1.200	4.353	.00219	31.63007	-.34508	-.34046	-.34927	-.35361
1.200	6.623	.00149	31.62324	-.34761	-.34155	-.34916	-.35850
1.200	8.873	.00138	31.63702	-.35431	-.34644	-.35622	-.36577
1.199	11.142	.00244	31.61669	-.36343	-.35979	-.36581	-.37476
1.199	13.399	.00246	31.61573	-.37499	-.37284	-.37654	-.38665
1.199	15.630	.00621	31.62192	-.38443	-.38333	-.39177	-.401081
1.198	17.869	.00927	31.61265	-.38945	-.39922	-.40464	-.40832
1.199	20.098	.01169	31.61742	-.41357	-.41814	-.43804	-.42113
1.199	22.325	.01399	31.61953	-.44509	-.43665	-.44783	-.43636

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## LA51 TABULATED SOURCE DATA

LARC8TP1-684 (LA-51) (B1F1M1C4) (WIE1SD) (V1)

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(PHW011)

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10.000
ATLRON =	.000	BCFLAP =	-11.700
SPDBRK =	.000		

RUN NO. 125/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.351	-2.074	5.03212	8.05001	-17590	-13625	-19470	-19303
.351	-.035	5.03512	8.05894	-17291	-15701	-19449	-18816
.351	.182	5.03631	8.03257	-17160	-15799	-19466	-18877
.352	2.136	5.03298	8.08563	-17328	-15604	-19525	-18847
.351	4.226	5.02211	8.05448	-17815	-15337	-19834	-18733
.351	6.236	5.00415	8.05448	-18189	-15244	-20254	-18666
.351	8.287	4.98157	8.05898	-18366	-15422	-20430	-18629
.352	10.298	4.95220	8.06792	-17926	-16196	-20781	-18935
.351	12.416	4.91588	8.04104	-17328	-18442	-21364	-19932
.352	14.516	4.87308	8.06344	-19338	-20207	-21492	-21229
.351	16.532	4.82251	8.03207	-20820	-21172	-21340	-22116
.351	18.911	4.76181	8.03566	-22075	-21394	-23389	-23176
.350	20.676	4.70991	8.01866	-24615	-22143	-26350	-25938

RUN NO. 124/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.800	-2.584	5.14748	29.81247	-19895	-18870	-21451	-21019
.801	-.154	5.15155	29.86996	-19539	-19334	-20600	-20359
.800	1.915	5.14593	29.79224	-19383	-19330	-20309	-20067
.799	4.142	5.13145	29.73872	-19760	-1971	-19937	-19739
.799	6.403	5.10740	29.76533	-18563	-18198	-20160	-19971
.800	8.663	5.07702	29.82675	-18237	-18328	-19505	-19716
.800	11.037	5.03669	29.86721	-18542	-19272	-19593	-20105
.800	13.250	4.99610	29.86579	-19493	-19565	-20139	-20326
.800	15.454	4.95571	29.83407	-20899	-20411	-21115	-22157
.800	17.684	4.90517	29.81481	-22934	-22526	-22957	-24464
.800	20.041	4.84965	29.84139	-27374	-26053	-29103	-32425
.799	22.310	4.78946	29.75839	-31511	-29362	-32494	

## LA51 TABULATED SOURCE DATA

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LARC8TP-684 (LA-51) (B1F1M1C4) (WNE180) (V1)

(PHW011)

## PARAMETRIC DATA

BETA = 5.000 ELEVTR = -10.000  
 ATLRCN = .0000 BDFLAP = -11.700  
 SPDBRK = .0000

## RUN NO. 123/0

MACH	ALPHA	BETA	Q (kPa)	CP1	CP2	CP3	CP4
.900	-2.653	5.17919	34.01864	-2.4927	-.20942	-.25327	-.25250
.899	-.338	5.18395	34.00353	-.24206	-.21139	-.24176	-.24476
.900	1.962	5.17942	34.004316	-.23780	-.20894	-.23762	-.24006
.899	4.268	5.16553	33.99696	-.23435	-.20392	-.24026	-.23839
.900	6.578	5.13695	34.03328	-.23243	-.19410	-.26586	-.24442
.900	8.881	5.10452	34.03703	-.22976	-.19145	-.27182	-.23679
.899	11.140	5.06491	33.99170	-.24492	-.19578	-.25801	-.23865
.898	13.436	5.02380	33.99662	-.25477	-.21437	-.26542	-.24946
.899	15.723	4.97870	33.98755	-.26935	-.24019	-.28218	-.26898
.900	18.031	4.92701	34.02149	-.29224	-.26522	-.29982	-.28749
.900	20.251	4.87317	34.01864	-.33171	-.29914	-.33900	-.32132
.900	22.431	4.79433	34.01295	-.38562	-.34633	-.39360	-.37706

## RUN NO. 122/0

MACH	ALPHA	BETA	Q (kPa)	CP1	CP2	CP3	CP4
.979	-2.482	5.15447	27.63824	-.39064	-.34801	-.39447	-.38987
.980	-.231	5.15787	27.66466	-.39519	-.34227	-.38704	-.38300
.980	2.024	5.15086	27.66171	-.38509	-.33374	-.38322	-.37551
.980	4.286	5.13372	27.66024	-.38181	-.33301	-.38375	-.37319
.980	6.551	5.10856	27.64927	-.38682	-.33404	-.38902	-.37655
.980	8.801	5.07364	27.65072	-.40082	-.33971	-.40368	-.38942
.979	11.073	5.03290	27.63827	-.41060	-.34231	-.42475	-.39930
.979	13.295	4.98900	27.63091	-.43244	-.36136	-.41244	-.41291
.979	15.526	4.94109	27.65067	-.44162	-.39214	-.45027	-.42602
.979	17.766	4.88599	27.62506	-.45147	-.41698	-.46767	-.44454
.979	20.015	4.82097	27.65139	-.47241	-.42211	-.47746	-.46066
.980	22.196	4.75193	27.65000	-.50935	-.44301	-.49897	-.48458

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## LA51 TABULATED SOURCE DATA

LARC8TP-684 (LA-51) (B1F1MC4) (M1E1SD) (V1)

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(PHV011)

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10,000
AILRDN =	.000	BCFLAP =	-11,700
SFDBRK =	.000		

RUN NO. 121/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.199	-2.433	5.17385	31.61808	-37594	-37017	-38160	-39201
1.199	-0.171	5.17341	31.62635	-37036	-36351	-37967	-38070
1.200	2.109	5.16234	31.62803	-36865	-36089	-37210	-37844
1.200	4.382	5.14145	31.62664	-36319	-35334	-36840	-37396
1.200	6.655	5.11545	31.63666	-36668	-36082	-37387	-37954
1.200	8.920	5.08320	31.62942	-37885	-37058	-38141	-38897
1.199	11.180	5.04274	31.61808	-37903	-37100	-39278	-39382
1.199	13.438	4.99895	31.61881	-38954	-37468	-39728	-40437
1.200	15.698	4.94760	31.64602	-41040	-42122	-40292	-39665
1.199	17.946	4.88448	31.61911	-41867	-42693	-41447	-41236
1.200	20.173	4.81561	31.62496	-42017	-43546	-43528	-43333
1.199	22.415	4.73936	31.62569	-44355	-41516	-46869	-45358

LARC8TP-684 (LA-51) (B1F1M1) (M1E1S1) (V1)

(PHV012)

## PARAMETRIC DATA

BETA =	.000	ELEVTR =	.000
AILRDN =	.000	BCFLAP =	-11,700
SFDBRK =	.000		

RUN NO. 135/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.142	-.00336	8.00962	-20573	-18445	-21872	-21723
.350	-0.004	-.00289	7.98713	-20159	-17792	-21416	-21267
.350	2.468	.00121	8.00513	-19833	-17426	-21275	-20751
.350	4.426	-.00114	8.00961	-19587	-17229	-21357	-20459
.350	6.766	-.00105	8.01858	-19425	-17164	-21614	-20249
.350	8.169	-.00165	8.00962	-19165	-16996	-21872	-20178
.351	10.233	-.00222	8.02306	-19321	-17201	-22170	-21378
.351	12.320	-.00230	7.99617	-19573	-18077	-21908	-20962
.351	14.345	-.00181	8.01411	-19999	-19276	-21954	-21398
.351	16.526	-.00076	8.01857	-20879	-21133	-23159	-23617
.350	18.664	-.00024	7.99169	-22831	-24201	-25398	-26116
.349	21.810	.00218	7.96476	-26401	-27103	-28547	-29753

LARC0PTT-684 (LA-51) (B1F1M1) (WE1S1) (V1)

(PHV012)

## PARAMETRIC DATA

BETA = .0000 ELEVTR = .0000  
 AILRDN = .0000 BDFLAP = -11.700  
 SPDBRK = .0000

RUN NO. 134/0

MACH	ALPHA	BETA	Q (kPa)	CP1	CP2	CP3	CP4
.8000	-2.480	-.00793	29.80829	-.21772	-.20413	-.22764	-.22299
.8000	-.048	.00102	29.80598	-.21230	-.19547	-.22367	-.21734
.8000	2.007	.00302	29.83808	-.20794	-.19001	-.22139	-.21348
.799	4.290	.00139	29.79972	-.20446	-.18564	-.22159	-.21141
.799	7.037	.001306	29.79986	-.20515	-.18746	-.22504	-.21209
.800	8.681	.00219	29.80217	-.20665	-.19085	-.22642	-.21359
.800	11.021	.00058	29.83547	-.21287	-.20408	-.22694	-.22355
.800	13.182	.00222	29.83928	-.22343	-.22275	-.22817	-.24212
.800	15.454	.00198	29.81913	-.24640	-.25328	-.27115	-.27095
.800	17.859	.00553	29.83928	-.28204	-.29240	-.31487	-.31514
.799	20.102	.00647	29.79695	-.31497	-.34091	-.33697	-.36213
.799	22.456	.01416	29.77065	-.37183	-.39264	-.38846	-.41181

RUN NO. 133/0

MACH	ALPHA	BETA	Q (kPa)	CP1	CP2	CP3	CP4
.901	-2.448	-.00714	34.06853	-.23109	-.21903	-.24048	-.23680
.901	-.062	.00301	34.06655	-.21564	-.21179	-.22230	-.22426
.901	2.386	.00372	34.05934	-.21547	-.20504	-.22588	-.22222
.900	4.328	.001704	34.03440	-.21065	-.19846	-.22306	-.21973
.900	6.640	.00667	34.03659	-.22135	-.19976	-.23474	-.22534
.900	8.887	.00786	34.02521	-.23690	-.21645	-.25259	-.24096
.900	11.253	.00494	34.02105	-.25141	-.23133	-.26476	-.26171
.900	13.530	.00827	34.06262	-.26160	-.26084	-.27028	-.28275
.900	15.792	.01107	34.02434	-.29461	-.30119	-.30138	-.31426
.901	18.194	.01284	34.05366	-.31501	-.33227	-.32880	-.35804
.899	21.092	.00583	34.00156	-.40740	-.40953	-.41213	-.43159
.900	22.290	.000891	34.01536	-.44140	-.43997	-.44762	-.45711

LAS1 TABULATED SOURCE DATA  
 LARC6TP1-684 (LA-51) (B1F1M1) (W1E1S1) (V1)

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(PHV012)

PARAMETRIC DATA

BETA =	.000
ATLRON =	.000
SPDBRK =	.000

RUN NO. 132/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.979	-2.513	-.00790	36.88096	-.39244	-.30236	-.02142	-.39203
.981	-.129	.00327	36.92274	-.39080	-.33682	-.40947	-.38297
.980	1.959	.00751	36.90953	-.38497	-.33100	-.40099	-.37624
.980	4.545	.00804	36.90588	-.38337	-.32971	-.39535	-.37425
.980	6.778	.00854	36.90221	-.39112	-.33224	-.39861	-.37791
.980	9.321	.01012	36.92634	-.40318	-.34186	-.40241	-.39075
.980	11.343	.00931	36.92706	-.42659	-.37480	-.42853	-.41330
.980	13.704	.00493	36.89196	-.44500	-.41328	-.45211	-.43611
.981	16.187	.00738	36.92126	-.47570	-.43736	-.49313	-.48410
.980	18.465	.00834	36.88904	-.49937	-.50740	-.51128	-.50669
.980	20.815	.01212	36.94750	-.54924	-.55956	-.56501	-.56218
.980	21.907	.01036	36.91247	-.58610	-.58502	-.60311	-.61484

RUN NO. 131/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.434	-.01244	42.201668	-.35594	-.34553	-.35632	-.35072
1.200	-.016	-.00282	42.22560	-.34585	-.33318	-.35051	-.34337
1.201	2.287	.00154	42.21280	-.33173	-.31460	-.34388	-.33538
1.201	4.445	.00093	42.21382	-.33139	-.31754	-.33972	-.32933
1.201	7.060	.00269	42.19007	-.34087	-.32857	-.34055	-.33445
1.200	9.265	.00081	42.19879	-.35332	-.32874	-.34756	-.35175
1.200	11.720	.00151	42.23711	-.36010	-.35987	-.36553	-.37316
1.200	14.098	.00080	42.23293	-.37773	-.38327	-.38180	-.38497
1.200	16.388	.00271	42.22059	-.41873	-.41966	-.42586	-.41925
1.200	18.645	.00593	42.20083	-.46939	-.46460	-.48400	-.47238
1.200	20.959	.00839	42.18607	-.49665	-.49813	-.51141	-.50134
1.200	23.094	.00719	42.20333	-.51271	-.51959	-.52947	-.52134

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LARC8TP1-684 (LA-51) (B1F1M1) (W1E1S1) (V1)

(PHW013)

## PARAMETRIC DATA

BETA =	.000	ELEVTR =	-10.000
AILRON =	.000	BDFLAP =	-11.700
SPDBRK =	.000		

RUN NO. 140/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.138	-.00345	7.98722	-.17287	-.14840	-.16131	-.18239
.350	-.094	-.00409	8.01859	-.17127	-.14363	-.17774	-.17748
.350	-.242	-.00259	8.01410	-.17089	-.14465	-.17784	-.17851
.351	2.135	-.00032	8.01857	-.17033	-.14270	-.17868	-.17561
.350	4.174	-.00136	7.98721	-.16910	-.14043	-.18125	-.17500
.350	6.017	-.00148	8.01861	-.16752	-.13896	-.18430	-.17440
.350	8.230	-.00331	8.00515	-.16591	-.13826	-.18835	-.17449
.350	10.253	-.00301	8.01859	-.16317	-.14317	-.18617	-.17514
.350	12.553	-.00353	7.99171	-.16995	-.15535	-.18396	-.17606
.350	14.419	-.00266	7.99171	-.17466	-.16659	-.18396	-.18369
.350	16.372	-.00159	7.99620	-.17832	-.18149	-.18997	-.19250
.349	18.527	-.00021	7.94201	-.16814	-.20391	-.22059	-.21151
.349	21.742	.00145	7.95138	-.22330	-.23617	-.23636	-.21998

RUN NO. 139/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.800	-2.548	-.01089	29.86246	-.21097	-.17883	-.20182	-.211182
.801	-.232	-.00245	29.87057	-.19677	-.17365	-.20617	-.19763
.800	1.958	.00073	29.83287	-.19057	-.16782	-.20279	-.19220
.800	3.975	.00069	29.84751	-.16658	-.16261	-.21332	-.18923
.800	6.258	-.00063	29.84460	-.18369	-.16099	-.21495	-.18836
.800	8.427	-.00143	29.82795	-.18303	-.16232	-.21463	-.18808
.800	10.694	-.00397	29.83849	-.18549	-.16993	-.19998	-.19091
.800	13.125	-.00382	29.84521	-.18747	-.18344	-.19503	-.19665
.800	15.390	-.00068	29.81862	-.19266	-.20594	-.21564	-.21379
.800	17.473	.00116	29.81481	-.21930	-.23774	-.22659	-.22186
.799	19.749	.00227	29.79915	-.24667	-.26550	-.27013	-.25255
.799	22.039	-.00116	29.80348	-.28216	-.30866	-.33675	-.31138

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## LAS1 TABULATED SOURCE DATA

LARC8TPT-684 (LA-51) (B1F1M1) (WIE1S1) (V1)

(FHM013)

## PARAMETRIC DATA

BETA =	.000	ELEVTR =	-10.000
AILRDN =	.000	BDFLAP =	-11.700
SPDRK =	.000		

RUN NO. 138 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.900	-2.625	-.01231	34.01952	-.25419	-.19910	-.28897	-.25130
.900	-.248	-.00276	34.01054	-.24342	-.19551	-.26032	-.23979
.900	2.069	.00326	34.03177	-.23332	-.18956	-.25198	-.22951
.900	4.129	.00270	34.01469	-.22979	-.18217	-.23145	-.22389
.900	6.792	-.00112	34.01339	-.23234	-.17535	-.25720	-.22456
.900	9.212	-.00169	34.03526	-.23528	-.17713	-.25625	-.22474
.899	15.914	-.00041	34.01746	-.23880	-.18199	-.25504	-.22923
.900	13.339	.00158	34.02265	-.24851	-.20522	-.24497	-.24123
.900	15.532	.00430	34.03309	-.26127	-.23752	-.24834	-.24845
.900	17.894	.00354	34.03834	-.27913	-.27236	-.27654	-.27309
.899	20.151	.00493	33.97721	-.31792	-.32122	-.32334	-.32722
.899	22.226	.00231	34.01607	-.37163	-.37249	-.37632	-.37632

RUN NO. 137 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.981	-2.668	-.01204	36.92596	-.40462	-.36449	-.38219	-.37011
.980	-.320	.00002	36.89054	-.37850	-.32281	-.35639	-.35256
.981	1.398	.00377	36.92639	-.38434	-.31834	-.35482	-.35191
.981	4.163	.00550	36.91176	-.39420	-.31198	-.35251	-.35502
.980	6.678	.00539	36.90223	-.40777	-.31249	-.38333	-.36671
.980	8.916	.00364	36.89416	-.42022	-.32447	-.39886	-.37862
.980	11.166	.001525	36.89196	-.43573	-.35817	-.41475	-.40199
.979	13.688	.00236	36.86854	-.44794	-.38551	-.42907	-.41640
.979	15.974	.00500	36.84869	-.45566	-.42619	-.44441	-.44189
.981	18.644	.00783	36.98215	-.47409	-.48197	-.49551	-.49193
.980	20.616	.01194	36.89051	-.50610	-.50801	-.52258	-.50958
.980	22.888	.00983	36.91748	-.56132	-.53468	-.55786	-.54950

LARC8TPF-684 (LA-51) (B1F1M1) (WIE1S1) (V1)

(FHV013)

## PARAMETRIC DATA

BETA = .000 ELEVTR = -10.000  
 ATLRON = .000 BDFLAP = -11.700  
 SFDBRK = .000

RUN NO. 136/0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
1.200	-2.382	-.01298	42.19740	-.37198	-.35803	-.38434	-.39120
1.200	-.161	-.00389	42.19294	-.36393	-.35384	-.37657	-.36335
1.200	2.568	.00310	42.20361	-.35080	-.34707	-.36747	-.35689
1.200	4.518	.00273	42.19461	-.34761	-.36744	-.36313	-.35126
1.200	6.765	.00186	42.19813	-.35183	-.39226	-.36440	-.35680
1.200	9.109	.00169	42.19609	-.35584	-.34894	-.36134	-.36325
1.200	11.508	-.00236	42.21159	-.35942	-.35432	-.36637	-.36952
1.199	13.996	-.00318	42.19163	-.39198	-.38912	-.39407	-.40002
1.199	16.258	.00144	42.20296	-.40510	-.40663	-.40949	-.41703
1.199	18.577	.00115	42.19396	-.42687	-.43221	-.43168	-.44025
1.199	20.860	.001452	42.18197	-.46218	-.46639	-.46533	-.47279
1.199	23.135	.00502	42.18892	-.49438	-.48318	-.50362	-.52054

LARC8TPF-684 (LA-51) (B1F1M1) (WIE1S2) (V1)

(FHV014)

## PARAMETRIC DATA

BETA = .000 ELEVTR = .000  
 ATLRON = .000 BDFLAP = -11.700  
 SFDBRK = .000

RUN NO. 80/0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.349	-2.064	-.00307	7.91086	-.20741	-.18087	-.22149	-.22142
.349	-.020	-.00096	7.94674	-.20357	-.17866	-.21814	-.21477
.349	2.025	-.00005	7.92437	-.20011	-.17584	-.21875	-.21157
.349	4.064	-.00104	7.95577	-.19744	-.17327	-.21742	-.20339
.350	6.113	-.00179	7.97810	-.19595	-.17280	-.22107	-.20782
.349	8.163	-.00090	7.96026	-.19780	-.17459	-.22581	-.21252
.349	10.236	-.00116	7.94231	-.19919	-.17875	-.22820	-.21678
.349	12.286	-.00169	7.94231	-.20251	-.18867	-.23057	-.22278
.349	14.344	.00002	7.94231	-.20962	-.20567	-.23531	-.24089
.349	16.405	.00012	7.95575	-.22111	-.22324	-.24910	-.25182
.349	18.467	-.00058	7.93334	-.24926	-.25127	-.26685	-.27193
.349	20.525	-.00071	7.94232	-.28359	-.28735	-.28834	-.30993

LARC8TPPT-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

(PHV014)

## PARAMETRIC DATA

BETA =	.000	ELEVTR =	.000
AIRRON =	.000	BCFLAP =	-11.700
SPDBRK =	.000		

RUN NO. 79/ 0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.801	-2.392	-.01116	29.87178	-.21392	-.20278	-.22418	-.22407
.801	-1.105	-.00338	29.84951	-.20348	-.19778	-.21313	-.21688
.801	2.105	.00249	29.85913	-.20266	-.19217	-.21496	-.21473
.801	4.315	.00447	29.82615	-.19857	-.19101	-.21202	-.21545
.801	6.345	.00182	29.88249	-.20252	-.19394	-.21858	-.22036
.801	8.761	.00075	29.82773	-.20985	-.21399	-.22341	-.23186
.801	10.998	.00048	29.86272	-.22263	-.21786	-.23251	-.24736
.801	13.253	.00476	29.79956	-.24094	-.23734	-.25043	-.27133
.801	15.464	.00153	29.86785	-.26540	-.26760	-.28226	-.29314
.801	17.704	.00356	29.86555	-.29518	-.30265	-.31364	-.32586
.801	19.960	.00018	29.82645	-.32837	-.33420	-.33974	-.36931
.801	21.826	.01929	29.83668	-.38115	-.38167	-.41177	-.41829

RUN NO. 78/ 0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.901	-2.377	-.01087	33.99150	-.22316	-.22162	-.22693	-.23387
.901	-1.109	-.00011	34.02871	-.21551	-.21378	-.22116	-.22711
.899	2.125	.00216	33.99083	-.20910	-.20718	-.21731	-.22238
.899	4.393	.00038	33.99807	-.20628	-.20327	-.21749	-.22167
.899	6.644	.00039	34.01414	-.23147	-.21729	-.26058	-.23662
.899	8.941	.000617	34.00376	-.23759	-.21801	-.26069	-.25047
.899	11.215	.000885	33.99324	-.24741	-.23507	-.26940	-.27341
.899	13.464	.001857	33.97856	-.27102	-.26596	-.28044	-.30813
.899	15.743	.01183	34.02434	-.30120	-.30233	-.35011	-.38884
.899	18.026	.01035	34.02302	-.34184	-.33406	-.35207	-.37959
.899	20.237	.01327	34.01492	-.39528	-.38133	-.40157	-.43190
.899	22.166	.01352	33.99696	-.46184	-.45554	-.49858	-.48361

## LA51 TABULATED SOURCE DATA

LARC8TP7-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

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(PHWD14)

## PARAMETRIC DATA

BETA = .0000  
 AIRCN = .0000  
 SPDBRK = .0000

BETA = .0000  
 ELEVTR = .0000  
 BDFLAP = -11.700

RUN NO. 77/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.395	-.010988	36.89785	-.38367	-.33498	-.41747	-.38837
.980	-.094	-.010999	36.90957	-.38076	-.32517	-.40926	-.37855
.981	2.291	.010888	36.91176	-.37412	-.32140	-.39397	-.36929
.980	4.513	.010609	36.91662	-.37391	-.32098	-.38306	-.36857
.979	6.813	.010666	36.87587	-.38273	-.32009	-.38677	-.37613
.980	9.129	.010985	36.88466	-.40107	-.35176	-.40407	-.39647
.980	11.445	.010803	36.88686	-.42598	-.37707	-.43404	-.42079
.980	13.766	.010439	36.89561	-.46179	-.42335	-.46950	-.44796
.979	16.112	.010577	36.86269	-.49365	-.46328	-.48561	-.48024
.981	18.420	.010048	36.91514	-.53682	-.51694	-.53735	-.52910
.980	20.695	.013012	36.90001	-.54525	-.59205	-.56986	-.56428
.980	21.243	.01122	36.89126	-.56265	-.55555	-.59467	-.58040

RUN NO. 76/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.388	-.011138	42.20091	-.35459	-.33267	-.36084	-.35034
1.200	-.065	.010108	42.20185	-.33486	-.31827	-.34961	-.34376
1.200	2.288	.01398	42.20556	-.31830	-.31448	-.32728	-.33071
1.200	4.604	.00344	42.20454	-.31747	-.31935	-.32476	-.32473
1.200	6.941	.00464	42.18979	-.33927	-.33377	-.34172	-.33748
1.201	9.271	.00510	42.20899	-.35739	-.35314	-.35660	-.36756
1.201	11.616	.01302	42.20240	-.37292	-.37252	-.38245	-.39479
1.201	13.970	.00379	42.19944	-.39448	-.39843	-.40309	-.39788
1.201	16.286	.00785	42.20668	-.41962	-.41163	-.41722	-.43139
1.200	18.597	.01002	42.21113	-.43364	-.43689	-.44351	-.45134
1.200	20.915	.01387	42.20251	-.46030	-.46139	-.47037	-.47037
1.200	22.793	.01597	42.19183	-.47722	-.47521	-.48428	-.48840

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## LARC8TP1-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

(PHV015)

## PARAMETRIC DATA

BETA = .000 ELEVTR = -10.000  
 AILRDN = .000 BCFLAP = -11.700  
 SPDBRK = .000

RUN NO. 75 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.349	-2.129	-.00305	7.95118	-.17458	-.14790	-.18019	-.18348
.349	-.106	-.00033	7.95119	-.17363	-.14507	-.17830	-.17970
.349	1.947	-.00053	7.94672	-.17136	-.14279	-.17793	-.17507
.349	3.996	-.00084	7.95568	-.16880	-.13886	-.17915	-.17205
.348	6.732	-.00010	7.91085	-.16688	-.14152	-.18300	-.17205
.349	8.194	-.00142	7.93325	-.16680	-.14444	-.18438	-.17300
.348	10.144	-.00075	7.91536	-.16679	-.15139	-.18194	-.17480
.349	12.201	-.00074	7.93777	-.17107	-.16184	-.18428	-.18378
.349	14.262	.00009	7.94224	-.17525	-.17497	-.18702	-.19892
.349	16.324	-.00021	7.93327	-.19255	-.19171	-.19908	-.20945
.348	18.368	.000123	7.91085	-.20116	-.20504	-.21437	-.23140
.348	20.442	.000128	7.89740	-.21628	-.23173	-.24192	-.26174

RUN NO. 74 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.800	-2.560	-.00992	29.84981	-.20404	-.17541	-.20985	-.21171
.801	-.365	-.00162	29.85242	-.19671	-.17151	-.20593	-.19616
.801	1.847	.00342	29.84661	-.19069	-.16714	-.21458	-.19216
.801	4.070	.00405	29.82384	-.18526	-.16147	-.20397	-.18839
.801	6.291	.00344	29.84310	-.18288	-.16162	-.20385	-.18778
.801	8.517	.00168	29.82705	-.18272	-.16560	-.20354	-.19064
.801	10.738	.00023	29.81928	-.18155	-.17287	-.19217	-.19512
.801	12.963	.00148	29.83377	-.18533	-.18279	-.19344	-.21067
.801	15.153	.00085	29.80749	-.19761	-.20457	-.20949	-.21532
.801	17.402	.00374	29.88539	-.22903	-.23659	-.23139	-.24535
.801	19.666	.00323	29.80427	-.26308	-.29951	-.27109	-.27583
.801	21.854	.00348	29.81742	-.30263	-.31229	-.31651	-.31476

## LA51 TABULATED SOURCE DATA

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LARC8TP-604 (LA-51) (B1F1M1) (M1E1S2) (V1)

(PHW015)

## PARAMETRIC DATA

BETA	=	.000	ELEVTR =	-19.000
AIRLON	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 73 / 0

MACH	ALFHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.900	-2.681	-.00976	34.04841	-.26045	-.19284	-.27118	-.25356
.901	-3.889	-.00051	34.06481	-.25005	-.16791	-.26399	-.24462
.900	1.893	.00410	34.04928	-.23943	-.18259	-.28278	-.23822
.901	4.172	.00460	34.06481	-.23081	-.17756	-.26255	-.23084
.900	6.462	.00389	34.02696	-.23339	-.17379	-.26074	-.22778
.900	8.730	.00426	34.05016	-.23843	-.17619	-.25016	-.22333
.901	11.013	.00559	34.06853	-.24438	-.18801	-.24186	-.22707
.899	13.255	.00236	34.00084	-.25425	-.20033	-.24450	-.22998
.900	15.525	.00451	34.05452	-.27213	-.22496	-.28538	-.26179
.900	17.798	.00521	34.02696	-.28873	-.26228	-.29058	-.28418
.900	20.024	.01341	34.012937	-.32302	-.31591	-.33068	-.32158
.900	22.212	-.00082	34.03681	-.38867	-.38086	-.40430	-.39952

RUN NO. 72 / 0

MACH	ALFHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.498	-.00589	27.67264	-.38919	-.34867	-.36547	-.35596
.981	-2.279	-.00178	27.69607	-.37183	-.31773	-.39752	-.34897
.981	1.955	.00684	27.69459	-.37327	-.30752	-.35040	-.34214
.980	4.180	.00826	27.68070	-.38250	-.30436	-.35066	-.34591
.981	6.409	.01605	27.67849	-.39471	-.31028	-.37751	-.35754
.980	8.652	.01478	27.67044	-.41221	-.32577	-.40639	-.37999
.981	10.897	.00419	27.66824	-.43604	-.35567	-.42937	-.40186
.979	13.129	.00498	27.66164	-.45296	-.39453	-.44029	-.42538
.979	15.354	.00884	27.64623	-.46129	-.41648	-.44053	-.43444
.980	17.584	.01021	27.668022	-.46566	-.46125	-.47336	-.47185
.981	19.811	.00962	27.668292	-.49232	-.50013	-.52090	-.51447
.980	22.025	.01224	27.668209	-.51932	-.52296	-.54134	-.55195

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## LA51 TABULATED SOURCE DATA

LARC8TPT-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

(PHV015)

## PARAMETRIC DATA

BETA	=	.0000	ELEVTR =	-10.000
AIRCN	=	.0000	BCFLAP =	-11.750
SPCBRK	=	.000		

RUN NO. 71/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.447	-.00806	31.65457	-.36686	-.35595	-.37684	-.37983
1.200	-.195	.00009	31.65178	-.36074	-.35078	-.36669	-.37278
1.201	2.051	.00422	31.66068	-.34726	-.34339	-.36130	-.34889
1.201	4.289	.00443	31.65447	-.34506	-.34487	-.35087	-.34682
1.200	6.540	.00622	31.65382	-.34985	-.34917	-.36080	-.35266
1.200	8.786	.00258	31.65335	-.35684	-.34992	-.36039	-.36735
1.200	11.037	.00192	31.65355	-.36636	-.35435	-.37420	-.37518
1.200	13.281	.00149	31.64983	-.37931	-.37258	-.38312	-.3834
1.200	15.541	.00582	31.65874	-.39613	-.40342	-.40725	-.41827
1.200	17.744	.00697	31.64287	-.41018	-.41766	-.42354	-.43123
1.200	19.962	.00896	31.64594	-.43429	-.43787	-.44145	-.45361
1.199	22.173	.01360	31.63637	-.44616	-.45220	-.46345	-.46962

LARC8TPT-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

(PHV016)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
AIRCN	=	.000	BCFLAP =	-11.750
SPCBRK	=	.000		

RUN NO. 120/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.144	5.02975	8.00505	-.17334	-.15780	-.19296	-.19104
.350	-.081	5.03540	7.97818	-.17202	-.15738	-.19265	-.18790
.350	1.980	5.03223	7.99164	-.17410	-.15524	-.19563	-.18853
.349	4.019	5.02235	7.95129	-.17591	-.15271	-.20187	-.18947
.349	6.074	5.00614	7.96028	-.17666	-.15301	-.21173	-.18832
.350	8.134	4.98364	7.98269	-.17429	-.15682	-.20522	-.18780
.349	10.193	4.95447	7.97372	-.17543	-.16406	-.19701	-.18659
.349	12.257	4.91996	7.96027	-.18024	-.17140	-.19308	-.19121
.349	14.338	4.87844	7.97373	-.19528	-.18241	-.21220	-.20262
.349	16.403	4.83101	7.94682	-.20731	-.20012	-.21192	-.21464
.349	18.478	4.77750	7.95581	-.21949	-.21395	-.22162	-.22338
.349	20.543	4.71917	7.97373	-.23215	-.23042	-.23712	-.23372

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## LA51 TABULATED SOURCE DATA

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LARC8TPT-684 (LA-51) (B1F1M1) (W1E1S2) (V1)

(PHW016)

## PARAMETRIC DATA

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.800	-2.580	5.14277	29.01712	-.19966	-.19119	-.21656	-.21179
.810	-.327	5.150174	29.63557	-.19906	-.19651	-.20991	-.20804
.801	1.869	5.14785	29.85974	-.19513	-.19560	-.20393	-.20156
.800	4.103	5.13376	29.82765	-.18824	-.19025	-.19529	-.19459
.800	6.334	5.11545	29.63556	-.18279	-.18835	-.18783	-.18928
.803	0.552	5.08753	29.804921	-.18345	-.19013	-.18699	-.19544
.800	10.817	5.05075	29.80176	-.18334	-.19116	-.18762	-.19324
.800	13.036	5.01228	29.81101	-.18846	-.19568	-.18946	-.19595
.800	15.243	4.96566	29.81652	-.20563	-.21247	-.20596	-.20801
.800	17.516	4.91634	29.80639	-.23122	-.23505	-.22406	-.22506
.801	19.789	4.86496	29.85744	-.26735	-.26598	-.25053	-.30392
.800	22.028	4.80148	29.63519	-.31425	-.310866	-.30999	-.344411

RUN NO. 119/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.899	-2.670	5.17175	33.96914	-.24537	-.20093	-.23925	-.25104
.901	-.357	5.18175	34.05825	-.24439	-.21168	-.24027	-.24641
.900	1.918	5.18118	34.03615	-.24145	-.20992	-.23844	-.24182
.900	4.216	5.16834	34.04775	-.23450	-.20192	-.23460	-.23589
.899	6.490	5.14494	34.01185	-.23297	-.18688	-.23399	-.24442
.901	8.799	5.11493	34.06438	-.23350	-.18529	-.28022	-.24471
.900	11.083	5.07694	34.03987	-.23932	-.19259	-.26207	-.23628
.901	13.351	5.03226	34.06166	-.24670	-.20415	-.26412	-.24816
.900	15.618	4.98932	34.02565	-.26722	-.23240	-.27291	-.26167
.901	17.913	4.94485	34.04972	-.29360	-.25304	-.29725	-.29548
.900	20.159	4.89602	34.053878	-.32957	-.31453	-.34422	-.34029
.900	22.344	4.81360	34.05388	-.38953	-.38051	-.39766	-.40050

RUN NO. 118/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.899	-2.670	5.17175	33.96914	-.24537	-.20093	-.23925	-.25104
.901	-.357	5.18175	34.05825	-.24439	-.21168	-.24027	-.24641
.900	1.918	5.18118	34.03615	-.24145	-.20992	-.23844	-.24182
.900	4.216	5.16834	34.04775	-.23450	-.20192	-.23460	-.23589
.899	6.490	5.14494	34.01185	-.23297	-.18688	-.23399	-.24442
.901	8.799	5.11493	34.06438	-.23350	-.18529	-.28022	-.24471
.900	11.083	5.07694	34.03987	-.23932	-.19259	-.26207	-.23628
.901	13.351	5.03226	34.06166	-.24670	-.20415	-.26412	-.24816
.900	15.618	4.98932	34.02565	-.26722	-.23240	-.27291	-.26167
.901	17.913	4.94485	34.04972	-.29360	-.25304	-.29725	-.29548
.900	20.159	4.89602	34.053878	-.32957	-.31453	-.34422	-.34029
.900	22.344	4.81360	34.05388	-.38953	-.38051	-.39766	-.40050

## LAS1 TABULATED SOURCE DATA

LARC6TPT-664 (LA-51) (B1F1M1) (WE192) (V1)

PAGE 110

(PHV016)

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10.000
AILRDN =	.000	BLFLAP =	-11.700
SPCBRK =	.000		

RUN NO. 117/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.498	5.14770	27.67042	-38997	-34671	-39224	-38486
.980	-.254	5.15639	27.67706	-39126	-34055	-38346	-37922
.980	1.986	5.15239	27.67558	-38784	-33525	-38359	-37636
.979	4.235	5.13695	27.65597	-38332	-32718	-39233	-37592
.979	6.470	5.11364	27.65652	-38942	-32306	-40126	-38227
.979	8.727	5.08168	27.64699	-40543	-32651	-41748	-39619
.979	10.971	5.03829	27.63745	-42950	-37537	-43361	-41978
.979	13.211	4.99558	27.64526	-44717	-41489	-45248	-43400
.979	15.450	4.95166	27.63745	-44764	-42350	-44709	-43406
.979	17.684	4.89704	27.66966	-46487	-45125	-46665	-45505
.979	19.886	4.83011	27.65504	-48223	-47287	-50380	-48717
.979	22.081	4.77225	27.64538	-50856	-49434	-53746	-51982

RUN NO. 116/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.436	5.17126	31.63261	-37794	-36944	-39389	-39162
1.200	-.175	5.17192	31.65772	-37472	-36447	-38460	-38639
1.200	2.071	5.16593	31.65494	-36646	-35790	-37184	-37780
1.200	4.332	5.14819	31.66078	-36337	-34937	-36696	-37388
1.200	6.570	5.12277	31.66598	-36923	-35473	-37911	-37640
1.200	8.836	5.08807	31.63428	-38091	-36197	-37948	-38270
1.199	11.109	5.05044	31.65780	-39095	-37410	-3983	-39912
1.200	13.356	5.00829	31.66635	-39524	-39698	-40638	-41527
1.200	15.617	4.96196	31.65743	-40149	-41423	-41797	-43183
1.200	17.842	4.90505	31.66635	-41071	-43253	-42825	-44268
1.200	20.058	4.84168	31.66913	-42888	-44577	-44532	-46330
1.201	22.295	4.76999	31.67349	-44300	-41527	-46488	-45280

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## LA51 TABULATED SOURCE DATA

LARC8TP-604 (LA-51) (B2F1M1) (WE1SD) (V1)

(PHV017)

## PARAMETRIC DATA

BETA = .000  
 ALIRON = .000  
 SPECRIR = .000

RUN NO. 60 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.349	-2.035	-.00200	7.97373	-.20045	-.10610	-.22053	-.21724
.350	.090	-.00170	7.98271	-.20549	-.18270	-.21746	-.21277
.349	4.140	.00113	7.97373	-.19902	-.17492	-.21723	-.20595
.349	6.208	-.00077	7.96030	-.19652	-.17380	-.22184	-.20347
.350	8.769	-.00167	7.98719	-.19540	-.17369	-.22291	-.20514
.350	11.362	-.00137	7.98271	-.19881	-.18035	-.22357	-.21042
.349	12.750	-.00103	7.97374	-.20327	-.18712	-.22382	-.21771
.350	14.694	-.00067	7.98719	-.21187	-.20087	-.23053	-.22955
.350	16.597	.00048	7.97823	-.22153	-.22314	-.24110	-.24625
.349	18.410	.00143	7.97373	-.23769	-.24580	-.25629	-.26425
.349	20.511	.00292	7.96477	-.25541	-.26865	-.27543	-.28667

RUN NO. 59 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	-2.331	-.01672	29.86716	-.21975	-.20607	-.22922	-.22052
.812	-.110	.00180	29.90913	-.21306	-.19760	-.22303	-.21372
.802	.380	.00185	29.90720	-.21386	-.19797	-.22433	-.21552
.800	2.303	.00157	29.81913	-.21086	-.19295	-.22365	-.21306
.801	4.201	.00551	29.87317	-.20939	-.18975	-.22466	-.21445
.801	6.666	.00675	29.84540	-.20769	-.19102	-.22724	-.21226
.800	8.671	.00206	29.83758	-.21088	-.19710	-.23056	-.21745
.800	10.885	.00249	29.83538	-.21671	-.20991	-.23346	-.22878
.801	13.245	.00250	29.88158	-.23929	-.23605	-.24964	-.24991
.801	15.341	.00763	29.86325	-.26296	-.26614	-.27273	-.27755
.800	17.534	.01260	29.82936	-.28744	-.29277	-.29705	-.30147
.799	20.015	.01280	29.70380	-.32824	-.33403	-.35426	-.34621
.800	21.799	.01407	29.61391	-.37420	-.37803	-.37989	-.39367

LASI TABULATED SOURCE DATA  
 LARC8TP7-684 (LA-51) (B2F1M1) (WE15n) (V1)

PAGE 112

(PHV017)

PARAMETRIC DATA

BETA = .000  
 ALRDN = .000  
 SPDBRK = .000

RUN NO. 56 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.901	-2.448	-.00614	34.05847	-.23427	-.22068	-.24515	-.23671
.901	-1.121	.00464	34.06699	-.21920	-.21337	-.22366	-.22389
.900	.111	.00402	34.03156	-.21766	-.21304	-.22483	-.22111
.901	2.141	.00609	34.00266	-.21641	-.20584	-.22755	-.21974
.901	4.427	.00595	34.02587	-.21427	-.20273	-.22817	-.22339
.901	6.723	.00716	34.05431	-.22546	-.20542	-.24599	-.24349
.901	8.868	.00511	34.03331	-.24295	-.21985	-.25988	-.26310
.901	11.077	.00766	34.06043	-.25909	-.23231	-.26992	-.29267
.901	13.327	.01066	34.06634	-.27438	-.26216	-.28243	-.32747
.900	15.532	.01008	34.04097	-.30683	-.29754	-.31538	-.35497
.901	17.840	.00997	34.00222	-.33759	-.32825	-.35602	-.39210
.901	20.157	.02886	34.01361	-.38843	-.37260	-.40114	-.44577
.899	22.099	.01174	33.98929	-.45496	-.43596	-.46877	-.44577

RUN NO. 57 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.294	-.00539	27.68999	-.39054	-.33914	-.41772	-.38446
.980	-.008	.00181	27.66097	-.38822	-.33180	-.40835	-.37672
.980	2.043	.00640	27.64560	-.38398	-.32864	-.40102	-.37015
.979	4.237	.00705	27.64264	-.38234	-.32608	-.39734	-.36786
.980	6.681	.00725	27.65362	-.39107	-.33396	-.40307	-.37435
.979	8.839	.01067	27.63614	-.40604	-.34164	-.40756	-.38729
.979	11.034	.00996	27.64557	-.43480	-.37436	-.43816	-.41812
.979	13.090	.00951	27.65507	-.46159	-.40547	-.47061	-.44559
.980	15.451	.01438	27.67261	-.49614	-.44996	-.50333	-.48137
.979	17.597	.01010	27.68489	-.53225	-.49996	-.53558	-.51277
.979	19.799	.01153	27.64331	-.55412	-.54244	-.55714	-.54447
.979	22.014	.00905	27.64916	-.58530	-.57822	-.60537	-.58750

## LAS1 TABULATED SOURCE DATA

LARC6TPF-684 (LA-51) (B2F1M1) (ME1SD) (V1)

(FHV017)

## PARAMETRIC DATA

BETA	=	.000
AIRCON	=	.000
SPDBRK	=	.000

RUN NO. 56 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.199	-2.321	-.000864	31.62532	-.35309	-.34270	-.35381	-.34534
1.199	-.070	-.000926	31.62642	-.34125	-.32713	-.34757	-.33698
1.200	.132	.000112	31.63731	-.33993	-.32558	-.34719	-.33625
1.200	2.690	.00329	31.63453	-.32918	-.31524	-.34003	-.32791
1.200	4.364	.00266	31.63276	-.32350	-.32350	-.34013	-.32765
1.200	6.499	.00160	31.63211	-.34619	-.33667	-.34336	-.33671
1.200	8.953	.00275	31.63322	-.35646	-.34008	-.35516	-.35440
1.200	11.231	.00173	31.63944	-.36579	-.36245	-.37325	-.37010
1.199	13.274	.00282	31.63052	-.38355	-.38983	-.38789	-.38271
1.199	15.627	.00540	31.63710	-.40504	-.40887	-.40923	-.40162
1.199	17.744	.00772	31.62611	-.43703	-.43918	-.44472	-.44518
1.199	20.012	.01996	31.61917	-.46732	-.46039	-.47496	-.47669
1.199	22.213	.01149	31.62913	-.48758	-.46904	-.49424	-.49939

(FHV018)

LARC6TPF-684 (LA-51) (B2F1M1) (ME1SD) (V1)

## PARAMETRIC DATA

BETA	=	.000
AIRCON	=	.000
SPDBRK	=	.000

RUN NO. 55 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.352	-2.190	-.00261	0.10382	-.17687	-.15255	-.18278	-.18467
.353	-.134	-.00252	0.12622	-.17500	-.14891	-.18136	-.18048
.353	1.690	-.00187	0.12610	-.17454	-.14615	-.16136	-.17771
.352	4.016	-.00153	0.09127	-.17205	-.14216	-.18447	-.17431
.351	6.268	-.00247	0.04105	-.16887	-.13789	-.18885	-.17256
.351	8.121	-.00184	0.04105	-.16840	-.14068	-.19071	-.17350
.351	10.067	-.00264	0.02762	-.17055	-.14790	-.16869	-.17705
.351	12.366	-.00190	0.04104	-.17448	-.16970	-.18085	-.18096
.350	14.205	-.00083	0.01416	-.16162	-.17430	-.19649	-.19091
.350	16.253	-.00064	0.00520	-.16099	-.19039	-.20140	-.19955
.351	18.304	.00017	0.02762	-.19678	-.21225	-.21066	-.21721
.351	20.406	.00151	0.01065	-.21668	-.23302	-.22727	-.23616

## LA51 TABULATED SOURCE DATA

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LARC8TPT-684 (LA-51) (B2F1M1) (WIE1SD) (V1)

(PHW019)

## PARAMETRIC DATA

RUN NO.	105/0	MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
		5.02920	5.05710	-17303	-15458	-19255	-18941		
		5.03571	7.91539	-17274	-15773	-19448	-18899		
		5.03155	7.92884	-17577	-15005	-19795	-19009		
		5.02112	7.92440	-17777	-15377	-20423	-19120		
		5.00577	7.96924	-17821	-14963	-21301	-19109		
		4.98829	7.97372	-17764	-15378	-21950	-19187		
		4.95295	7.96028	-17415	-15327	-21608	-19313		
		4.92031	7.93788	-17273	-16296	-20389	-19130		
		4.87949	7.96925	-17585	-17269	-19744	-19245		
		4.83329	7.93340	-18137	-18880	-20258	-20135		
		4.78013	7.97376	-19747	-19715	-21577	-21750		
		4.67925	7.94236	-22290	-22813	-23456	-23659		
RUN NO.	104/0	MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
		5.14265	29.85393	-19802	-1976	-21554	-20858		
		5.14920	29.84691	-19832	-19382	-21244	-20674		
		5.14951	29.81287	-19841	-19379	-21303	-20771		
		5.14570	29.85332	-19797	-19553	-21988	-20595		
		5.13321	29.84661	-18974	-18942	-19871	-19743		
		5.11343	29.86165	-18108	-18119	-18653	-19043		
		5.08799	29.83377	-18398	-18347	-18517	-19386		
		5.03265	29.84630	-18432	-18355	-18951	-19807		
		5.01669	29.85163	-19279	-19055	-19559	-20200		
		4.97271	29.82735	-20727	-21216	-21752	-21442		
		4.91683	29.85944	-22347	-23092	-22596	-23409		
		4.85720	29.76100	-25831	-26326	-26253	-26130		
		4.79804	29.79494	-31927	-31955	-30895	-30715		

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LARCBTP1-684 (LA-51) (B2F1M1C3) (M1E1SD) (V1)

(PHV020)

## PARAMETRIC DATA

## LA51 TABULATED SOURCE DATA

LARCBTP1-684 (LA-51) (B2F1M1 ) (M1E1SD) (V1)

(PHV019)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
ALRDN	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

## RUN NO. 103/ 0

MACH	ALPHA	BETA	Q (KFA)	CP1	CP2	CP3	CP4
.899	-2.508	5.17292	33.98842	-2.24689	-.20756	-.24747	-.25556
.900	-.360	5.18234	34.05541	-.24564	-.21167	-.24434	-.24531
.900	1.946	5.18161	34.02477	-.24554	-.20999	-.24135	-.24357
.899	4.286	5.16941	34.00725	-.23580	-.20171	-.23672	-.23751
.900	6.570	5.14795	34.04972	-.23285	-.18770	-.25597	-.24818
.900	8.768	5.11541	34.03068	-.23265	-.18119	-.28706	-.25558
.901	11.035	5.08604	34.07138	-.23667	-.18406	-.28208	-.24889
.899	13.365	5.04567	34.00374	-.25055	-.20074	-.27800	-.25556
.900	15.657	5.00302	34.02783	-.27384	-.22485	-.28377	-.26319
.899	17.862	4.94981	34.01315	-.29654	-.26221	-.29904	-.28017
.899	20.086	4.87710	33.986577	-.34077	-.32034	-.34352	-.32229
.899	22.962	4.74051	34.01359	-.42453	-.42625	-.43956	-.41634

## RUN NO. 102/ 0

MACH	ALPHA	BETA	Q (KFA)	CP1	CP2	CP3	CP4
.980	-2.384	5.15073	27.68141	-.39666	-.35352	-.39424	-.39992
.981	-.218	5.15733	27.69167	-.39666	-.34835	-.38877	-.38663
.981	2.018	5.15283	27.69880	-.39404	-.34309	-.38600	-.38216
.981	4.326	5.13662	27.68072	-.39037	-.33710	-.39826	-.38284
.980	6.586	5.11361	27.66192	-.39287	-.32813	-.40624	-.38723
.980	8.753	5.08441	27.69985	-.41204	-.33177	-.42291	-.40225
.980	11.055	5.04611	27.67119	-.43557	-.35702	-.44194	-.42195
.980	13.277	5.00610	27.69381	-.44991	-.38261	-.46182	-.43680
.980	15.578	4.95864	27.71792	-.45653	-.40589	-.47018	-.44544
.980	17.623	4.90704	27.71937	-.46505	-.44440	-.46210	-.45515
.981	20.023	4.84179	27.73132	-.52389	-.51829	-.51290	-.50734
.980	22.214	4.76894	27.66387	-.54250	-.53718	-.53564	-.52478

LARC8TP1-684 (LA-51) (B2F1M1) (M1E1SD) (V1)

(PHV019)

PARAMETRIC DATA

## LA51 TABULATED SOURCE DATA

LARC8TP1-684 (LA-51) (B2F1M1C3) (M1E1SD) (V1)

(PHV020)

## PARAMETRIC DATA

BETA =	.000
AIRRN =	.000
SPCBRK =	.000

RUN NO.	42 / 0	MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
		.980	-2.396	-.01143	36.91025	-.38959	-.33795	-.42441	-.38919
		.981	-.062	-.00129	36.90375	-.38786	-.35182	-.41402	-.38114
		.980	2.232	.00582	36.88689	-.37919	-.32440	-.40150	-.37136
		.980	4.549	.00511	36.89933	-.37511	-.32273	-.39192	-.36491
		.980	6.877	.00723	36.88618	-.37853	-.32292	-.38819	-.36969
		.980	9.198	.00987	36.88979	-.39650	-.33411	-.40113	-.38629
		.980	11.477	.01793	36.87372	-.43311	-.36221	-.44454	-.41364
		.980	13.805	.00926	36.87224	-.46885	-.39619	-.47882	-.44523
		.979	16.121	.01066	36.86637	-.50117	-.42815	-.51935	-.48255
		.980	18.419	.01372	36.88906	-.51995	-.45139	-.53597	-.51498
		.980	20.686	.00983	36.89566	-.53207	-.48918	-.53518	-.54968
		.981	21.298	.01123	36.89573	-.54179	-.51692	-.57501	-.54968

RUN NO.	41 / 0	MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
		1.199	-2.398	-.01472	42.17019	-.35374	-.31083	-.35626	-.34683
		1.200	-.042	-.00583	42.18496	-.34246	-.32835	-.34865	-.33843
		1.200	2.291	.00177	42.18348	-.32461	-.31644	-.35661	-.32891
		1.200	4.654	.00247	42.18970	-.32171	-.32378	-.32837	-.32529
		1.200	6.957	.00082	42.18246	-.34280	-.34197	-.34641	-.34563
		1.200	9.291	.00004	42.17743	-.35898	-.33353	-.36293	-.36346
		1.199	11.532	.00115	42.17780	-.36680	-.36116	-.37367	-.37731
		1.199	13.987	.00406	42.17817	-.39559	-.38912	-.39610	-.39382
		1.201	16.319	.00866	42.21038	-.41398	-.40556	-.41660	-.40639
		1.200	18.601	.01203	42.19768	-.42201	-.43233	-.45271	-.45964
		1.199	20.912	.01275	42.17268	-.44253	-.45336	-.48011	-.49414
		1.200	23.214	.00938	42.19367	-.47240	-.47211	-.47844	-.47456

## LA51 TABULATED SOURCE DATA

LARCBTPT-664 (LA-51) (B2F1H1C3) (ME18n) (V1)

(PHV021)

## PARAMETRIC DATA

BETA	=	.0000	ELEVTR =	-10.000
ATLROW	=	.0000	BDFLAP =	-11.700
SPDBRK	=	.0000		

RUN NO. 50 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.349	-2.145	-.00472	7.97376	-.17545	-.15240	-.18147	-.16527
.350	-.090	-.00314	8.01410	-.17318	-.14884	-.18011	-.17628
.350	1.947	-.00204	8.01658	-.17027	-.14596	-.17880	-.17537
.350	4.005	-.00198	7.98273	-.16866	-.14473	-.18033	-.17333
.349	6.055	-.00266	7.97377	-.16744	-.14676	-.18053	-.17305
.350	8.105	-.00234	7.98274	-.16584	-.14707	-.18033	-.17198
.350	10.168	-.00270	8.01666	-.16923	-.15845	-.18322	-.17857
.351	12.203	-.00267	8.01857	-.17215	-.16883	-.18656	-.18613
.350	14.270	-.00153	8.01513	-.18229	-.17659	-.19765	-.19814
.349	16.355	-.00128	7.96927	-.19619	-.17690	-.20983	-.20843
.349	18.383	-.00020	7.97377	-.21458	-.17821	-.22242	-.21584
.349	20.444	.01144	7.95584	-.21081	-.17249	-.26442	-.22621

RUN NO. 49 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.800	-2.580	-.01065	29.84189	-.19864	-.17915	-.20501	-.19746
.800	-.340	-.00346	29.80127	-.19472	-.17397	-.20250	-.19356
.801	1.871	.00052	29.88569	-.18994	-.16764	-.19971	-.18917
.801	4.097	.00242	29.86585	-.18691	-.16561	-.19782	-.18802
.800	6.330	.00045	29.81632	-.18492	-.16648	-.19724	-.19132
.801	8.550	-.00190	29.83317	-.18344	-.17013	-.19550	-.19336
.801	10.775	-.00175	29.84951	-.18625	-.17597	-.19855	-.19817
.801	12.948	-.00122	29.88239	-.19235	-.18269	-.20576	-.20349
.800	15.190	.00294	29.84279	-.20165	-.20272	-.21079	-.22169
.801	17.389	.00510	29.85593	-.22323	-.22934	-.23282	-.24170
.800	19.622	.001767	29.83317	-.25514	-.26237	-.26947	-.27907
.801	21.825	.00681	29.88279	-.29237	-.30030	-.32054	-.32807

## LA51 TABULATED SOURCE DATA

LARC8TPT-684 (LA-51) (B2F1M1C3) (ME1SD) (V1)

(PHV021)

## PARAMETRIC DATA

BETA	=	.0000	ELEVTR =	-10.000
AILRDN	=	.0000	BDFLAP =	-11.700
SFDBRK	=	.0000		

RUN NO. 48 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.900	-2.640	-.01427	34.01309	-.24549	-.20336	-.26332	-.24207
.899	-.380	-.000335	33.99951	-.23416	-.19665	-.24738	-.22779
.899	1.892	.00159	34.00374	-.22867	-.19054	-.23058	-.22033
.900	4.201	.00262	34.01623	-.22726	-.18365	-.23015	-.21584
.900	6.507	.00251	34.05716	-.22854	-.18090	-.24229	-.21548
.899	8.766	.00187	33.99932	-.23172	-.18322	-.25367	-.22337
.900	11.022	.00507	34.02111	-.23948	-.18746	-.27143	-.25585
.899	13.278	.01487	33.97745	-.25551	-.20075	-.28317	-.25084
.900	15.583	.01569	34.04491	-.27323	-.23044	-.29319	-.27017
.900	17.819	.00900	34.01995	-.29376	-.26548	-.32352	-.29781
.900	20.051	.01162	34.03922	-.34153	-.32273	-.37593	-.34930
.900	22.222	.01174	34.02280	-.39053	-.37107	-.41295	-.39465

RUN NO. 47 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.480	-.00893	27.67771	-.38941	-.33709	-.36333	-.36652
.981	-.245	-.00104	27.69120	-.37678	-.31251	-.35812	-.34949
.981	1.987	.00580	27.68364	-.37501	-.30288	-.35516	-.34392
.980	4.252	.00440	27.67484	-.37772	-.29663	-.36844	-.36688
.980	6.471	.00402	27.67484	-.38722	-.30393	-.38742	-.33975
.981	8.715	.00441	27.67339	-.39935	-.31370	-.41092	-.35378
.980	10.928	.00415	27.67044	-.41822	-.33302	-.43938	-.38811
.980	13.163	.00586	27.66901	-.45010	-.37125	-.46714	-.42767
.979	15.386	.00712	27.65284	-.46101	-.39087	-.47954	-.44159
.979	17.616	.00920	27.65872	-.46968	-.41197	-.47530	-.44916
.979	19.828	.00959	27.64114	-.48497	-.43283	-.49300	-.47524
.979	21.987	.01137	27.64843	-.52101	-.47916	-.51065	-.56671

## LA51 TABULATED SOURCE DATA

PAGE 123

LARC8TP7-684 (LA-51) (B2F1MC3) (WIE1SD) (V1)

(PHW021)

## PARAMETRIC DATA

BETA	=	.000	ELEVTR =	-10.000
AIRON	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 46/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.199	-2.437	-.01188	31.63395	-.36799	-.35624	-.38102	-.38367
1.200	-.169	-.00167	31.64770	-.35653	-.34801	-.36659	-.36724
1.200	2.083	.00302	31.64557	-.34633	-.34072	-.35454	-.35247
1.200	4.314	.00301	31.65559	-.34480	-.33565	-.34921	-.35367
1.200	6.565	.00273	31.63972	-.35013	-.33989	-.35908	-.35544
1.200	8.819	.00232	31.63907	-.35984	-.34203	-.36631	-.36056
1.200	11.080	.00099	31.64594	-.36587	-.35544	-.36871	-.37243
1.199	13.304	.00098	31.63673	-.37575	-.36954	-.38142	-.38644
1.199	15.549	.00175	31.63402	-.39380	-.39194	-.40157	-.41404
1.200	17.788	.00004	31.65494	-.40730	-.41644	-.42251	-.43684
1.200	19.987	.00735	31.64111	-.41568	-.43815	-.44235	-.45138
1.199	22.215	.01193	31.63637	-.43666	-.43952	-.46677	-.44635

LARC8TP7-684 (LA-51) (B2F1MC3) (WIE1SD) (V1)

(PHW022)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
AIRON	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 110/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.132	5.02542	8.01860	-.17957	-.16056	-.19733	-.19563
.351	-.086	5.02924	8.02307	-.17666	-.16000	-.19535	-.19131
.350	1.981	5.02642	8.01859	-.17628	-.15869	-.19827	-.18954
.350	4.040	5.01772	7.98275	-.16037	-.15938	-.20150	-.18991
.350	6.094	5.01042	8.01516	-.18317	-.15707	-.20612	-.18938
.351	8.155	4.97761	8.02308	-.18417	-.16000	-.21130	-.18944
.350	10.215	4.94011	8.01516	-.18364	-.16598	-.2129	-.19314
.351	12.276	4.91282	8.02308	-.18089	-.18359	-.20942	-.20115
.351	14.345	4.87017	8.02757	-.19769	-.19077	-.20930	-.21431
.350	16.394	4.82459	7.99821	-.20647	-.1924	-.22752	-.21626
.350	18.453	4.77030	8.00070	-.22331	-.18905	-.25421	-.23176
.349	20.521	4.71068	7.95137	-.24269	-.19964	-.26665	-.23932

## LASI TABULATED SOURCE DATA

LARC8TP-684 (LA-51) (B2F1MC3) (W1E1SD) (V1)

(FMHV022)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
AILRDN	=	.000	BDFLAP =	-11.700
SFCDBRK	=	.000		

RUN NO. 109/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.799	-2.578	5.14137	29.79173	-.20146	-.19114	-.21622	-.21138
.800	-.314	5.14606	29.82264	-.19786	-.19487	-.20921	-.20527
.800	1.979	5.14267	29.82294	-.19539	-.19663	-.20428	-.20098
.800	4.128	5.12649	29.83668	-.19159	-.19297	-.19953	-.19674
.801	6.368	5.10568	29.84571	-.18674	-.18756	-.19544	-.19467
.800	8.622	5.07421	29.85016	-.18446	-.18593	-.19697	-.20087
.801	10.834	5.03945	29.81882	-.16999	-.18861	-.19863	-.20542
.801	13.052	5.00086	29.85363	-.19932	-.19778	-.21384	-.21359
.801	15.257	4.99567	29.84891	-.21948	-.19942	-.23588	
.799	17.496	4.90396	29.78089	-.23355	-.22636	-.23386	-.23499
.800	19.721	4.88151	29.80046	-.27123	-.26350	-.27286	-.22229
.800	21.945	4.78928	29.81712	-.31344	-.29772	-.31714	-.32692

RUN NO. 108/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.900	-2.667	5.18254	34.01536	-.24878	-.21127	-.25385	-.25296
.901	-.335	5.18843	34.04666	-.23881	-.21210	-.24181	-.24123
.900	1.248	5.17580	34.01974	-.23856	-.21139	-.23911	-.24177
.900	4.242	5.16139	33.99807	-.23671	-.20523	-.24346	-.24170
.900	6.559	5.13611	34.02215	-.23145	-.19417	-.26530	-.24551
.901	8.833	5.10524	34.08383	-.23289	-.18997	-.27874	-.24922
.899	11.123	5.05902	33.98865	-.24897	-.19491	-.27198	-.24276
.900	13.385	5.03099	34.01682	-.26248	-.20914	-.27162	-.25214
.899	15.630	4.98759	33.98011	-.27843	-.23604	-.27881	-.26605
.900	17.894	4.94141	33.99478	-.30581	-.27524	-.31201	-.30542
.900	20.122	4.86047	34.04184	-.33772	-.30595	-.35513	-.33181
.899	22.310	4.80584	33.99696	-.37675	-.33626	-.39168	-.38011

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## LARC8TP-684 (LA-51) (B2F1W1C3) (WE1SD) (V1)

(PHV022)

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10.000
AILRDN =	.000	BUFLAP =	-11.700
SPDRK =	.000		

## RUN NO. 107 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.492	5.16006	27.68435	-39700	-36222	-39288	-39276
.980	-.233	5.16124	27.67851	-39420	-34071	-38410	-38115
.981	2.017	5.15524	27.69533	-38687	-33791	-38440	-37629
.981	4.265	5.14017	27.68875	-38513	-33265	-38973	-37659
.980	6.532	5.11529	27.66971	-39124	-33327	-39747	-38119
.981	8.742	5.08343	27.65727	-40646	-33646	-41593	-39405
.980	11.018	5.07987	27.66604	-42435	-35416	-44277	-41365
.980	13.222	4.99742	27.67556	-44307	-37540	-47845	-43572
.979	15.476	4.95181	27.65139	-45242	-40799	-47229	-44856
.980	17.789	4.89653	27.67846	-45988	-42508	-48407	-45013
.980	19.899	4.83668	27.67626	-47079	-42849	-50938	-47114
.979	22.109	4.77398	27.66894	-49974	-44998	-52633	-49452

## RUN NO. 108 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.436	5.17971	31.62459	-37630	-36930	-38180	-39304
1.200	-.162	5.17823	31.62905	-37252	-36257	-37755	-38511
1.200	2.087	5.16890	31.65902	-36893	-36066	-37336	-38057
1.200	4.359	5.14934	31.65800	-36378	-35317	-36953	-37443
1.200	6.822	5.12310	31.65215	-36748	-35637	-37712	-37889
1.200	8.878	5.09074	31.64770	-37971	-36831	-38127	-38740
1.199	11.131	5.05389	31.64398	-38777	-37918	-39067	-39102
1.200	13.363	5.01239	31.65502	-39136	-39106	-40563	-41255
1.200	15.617	4.96255	31.63981	-39742	-41333	-42797	-41361
1.200	17.849	4.90024	31.65437	-40843	-42239	-42349	-40695
1.199	20.089	4.83480	31.64156	-401816	-40481	-42299	-42108
1.199	22.306	4.76580	31.63505	-42965	-41779	-45266	-43850

## LA51 TABULATED SOURCE DATA

PAGE 126

LARC8 TPT-684 (LA-51) (B2F1M1) (W1E1S2) (V1)

(PHV023)

## PARAMETRIC DATA

BETA = .000  
 AILCOM = .000  
 SPDRK = .000

RUN NO. 65 / 0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.349	.2, .946	-.00282	7.96934	-.20739	-.18165	-.21971	-.21571
.350	-.012	-.00150	8.00071	-.20283	-.17373	-.21558	-.21254
.349	1.960	.00117	7.97832	-.20056	-.17335	-.21617	-.20843
.350	4.028	-.00034	7.98728	-.19752	-.17394	-.21499	-.20538
.350	6.087	-.00028	8.00072	-.19719	-.17318	-.21933	-.20504
.349	8.017	-.00074	7.97384	-.19643	-.17329	-.22241	-.20760
.350	10.226	-.00124	7.99176	-.19882	-.17816	-.22380	-.21371
.350	12.143	.00018	7.98728	-.20128	-.18059	-.22627	-.20887
.350	14.241	.00012	7.99175	-.20823	-.20022	-.23413	-.23482
.349	16.296	.000104	7.96485	-.22261	-.22117	-.24763	-.25392
.349	18.317	.00254	7.96485	-.25046	-.25311	-.26883	-.27638
.349	20.512	.00057	7.93796	-.28302	-.28722	-.28998	-.31101

RUN NO. 64 / 0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.800	-2.338	-.001658	29.84981	-.21792	-.21462	-.22733	-.22159
.800	-.178	-.001167	29.80628	-.21153	-.19111	-.22172	-.21761
.801	2.161	.001694	29.86264	-.20891	-.19088	-.22109	-.21372
.800	4.190	.001703	29.80628	-.20497	-.18794	-.22134	-.21232
.801	6.593	.001645	29.86325	-.20512	-.19375	-.22309	-.21572
.800	8.781	.001520	29.84149	-.20866	-.19053	-.22123	-.22479
.799	11.359	.001559	29.78380	-.22341	-.21798	-.22969	-.24646
.801	13.457	.001794	29.66325	-.24124	-.23762	-.24848	-.26481
.801	15.432	.001668	29.82936	-.25889	-.26172	-.27573	-.28281
.800	17.667	.001795	29.82705	-.28841	-.29337	-.31015	-.31777
.799	19.760	.01125	29.79083	-.32281	-.32998	-.33746	-.34932
.801	21.973	.01878	29.80658	-.38471	-.38271	-.41579	-.41332

## LA51 TABULATED SOURCE DATA

PAGE 127

LARC8TP7-684 (LA-51) (B2F1M1) (W1E1S2) (V1)

(PHW/H23)

## PARAMETRIC DATA

BETA = .000 ELEVTR = .000  
 AIRRN = .000 BDFLAP = -11.700  
 SPDBRK = .000

## RUN NO. 63 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.900	-2.484	-.00540	34.01010	-.22338	-.21851	-.22960	-.23357
.900	-1.182	.00363	34.03156	-.21573	-.21233	-.22174	-.22604
.899	2.187	.00750	33.98141	-.21128	-.20416	-.22118	-.22075
.901	4.266	.00803	34.02806	-.20536	-.20135	-.21758	-.21880
.899	6.555	.00932	33.98798	-.21932	-.20324	-.23505	-.22887
.900	9.167	.01013	34.01733	-.24024	-.21825	-.25835	-.25094
.900	11.215	.00870	34.01208	-.24768	-.23127	-.2634	-.26762
.901	13.373	.01156	34.01077	-.26792	-.25901	-.28278	-.29860
.901	15.633	.01863	34.01054	-.30129	-.29984	-.31552	-.33609
.899	17.837	.01229	33.96475	-.33590	-.32922	-.34515	-.36678
.899	20.142	.01380	33.99110	-.38619	-.37598	-.38992	-.41094
.899	22.560	.00805	33.99455	-.46180	-.45434	-.50160	-.47918

## RUN NO. 62 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.295	-.00428	27.66536	-.38120	-.33064	-.40806	-.38170
.980	-.046	.00266	27.66391	-.37879	-.32351	-.39941	-.37288
.980	2.084	.00591	27.65147	-.37575	-.32073	-.39218	-.36632
.980	4.256	.00704	27.66831	-.37564	-.32269	-.39330	-.36649
.980	6.454	.00795	27.66389	-.38309	-.32725	-.39272	-.37215
.980	8.617	.00847	27.66389	-.40103	-.34416	-.40104	-.39411
.980	11.408	.00655	27.66609	-.42342	-.37811	-.43435	-.42052
.980	13.008	.00727	27.65145	-.45306	-.41151	-.45986	-.44315
.979	15.529	.00735	27.62946	-.47408	-.45178	-.48940	-.46913
.979	17.649	.01068	27.62795	-.50596	-.49562	-.52304	-.52051
.979	19.887	.01317	27.63755	-.53946	-.53919	-.55168	-.55508
.977	22.592	.01370	27.58463	-.56236	-.55307	-.59428	-.57727

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## LA51 TABULATED SOURCE DATA

PAGE 128

LARC8TPT-684 (LA-51) (B2F1M1) (W1E1S2) (V1)

(PHV023)

## PARAMETRIC DATA

BETA	=	.000
AILRON	=	.000
SPDBRK	=	.000

RUN NO.	61 / 0						
MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.270	-.00651	31.63044	-.35113	-.34159	-.35393	-.34849
1.200	.049	.00062	31.63355	-.33837	-.32640	-.34582	-.34927
1.200	2.285	.00452	31.63555	-.32036	-.31095	-.33472	-.32998
1.200	4.641	.00481	31.63517	-.32172	-.31776	-.32802	-.32426
1.200	6.738	.00540	31.63453	-.34125	-.33376	-.33885	-.33695
1.200	8.962	.00435	31.63183	-.35394	-.35054	-.35283	-.36303
1.200	10.841	.00374	31.63739	-.35796	-.36223	-.36300	-.36336
1.199	13.221	.00423	31.61434	-.38287	-.36838	-.38550	-.38133
1.198	15.679	.00569	31.60628	-.40643	-.40706	-.41021	-.41034
1.198	17.976	.00801	31.61404	-.42898	-.42892	-.43390	-.44119
1.198	20.389	.01162	31.61470	-.45190	-.45138	-.45737	-.46220
1.198	22.141	.01389	31.60518	-.47966	-.47760	-.48841	-.48473

LARC8TPT-684 (LA-51) (B2F1M1) (W1E1S2) (V1)

(PHV024)

## PARAMETRIC DATA

BETA	=	.000
AILRON	=	.000
SPDBRK	=	.000

RUN NO.	70 / 0						
MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.348	-2.127	-.00246	7.93554	-.17301	-.14725	-.17858	-.18028
.349	-.114	-.00168	7.96493	-.17234	-.14575	-.17789	-.17817
.349	1.971	.00046	7.97849	-.17017	-.14269	-.17760	-.17506
.350	4.150	.00047	7.98250	-.16725	-.14074	-.18079	-.17262
.350	6.588	.00012	7.98737	-.16575	-.14066	-.18492	-.17158
.350	8.126	-.00082	8.00081	-.16641	-.14604	-.18519	-.17411
.350	10.086	-.00110	8.01977	-.16858	-.15336	-.18160	-.17626
.350	12.309	.00018	7.99633	-.17168	-.16438	-.18633	-.18546
.350	14.235	.00028	8.00061	-.17581	-.17645	-.18790	-.19660
.350	16.333	.00058	7.98737	-.18881	-.19033	-.19714	-.20772
.349	18.353	.00199	7.97393	-.20185	-.20755	-.21933	-.22876
.349	20.490	.00155	7.96496	-.22001	-.23550	-.24244	-.23866

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## LA51 TABULATED SOURCE DATA

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LARC8TP7-684 (LA-51) (B2F1M1) (NIE152) (V1)

(PHV024)

## PARAMETRIC DATA

BETA = .000  
 ATIRON = .000  
 SPDBRK = .000

RUN NO. 69 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	-2.634	-.01052	29.87147	-.20437	-.17591	-.21034	-.20336
.802	-.329	-.00164	29.92458	-.19788	-.17300	-.20674	-.19777
.801	2.019	.00256	29.87728	-.19062	-.16711	-.20440	-.19241
.801	3.987	.00296	29.88781	-.18555	-.16255	-.20371	-.18933
.801	6.449	.01036	29.83879	-.18277	-.16065	-.20351	-.18873
.802	8.477	.00015	29.92016	-.18246	-.16490	-.19975	-.19073
.801	10.635	-.00132	29.85544	-.18167	-.17186	-.19360	-.19542
.801	12.910	.00257	29.87117	-.18461	-.18205	-.19250	-.20060
.801	15.232	.00220	29.89452	-.19995	-.20559	-.21070	-.21563
.802	17.609	.00446	29.91496	-.23526	-.24337	-.23590	-.25648
.801	19.489	.00452	29.83177	-.25888	-.26570	-.26607	-.27474
.801	22.184	.00564	29.83267	-.30817	-.31751	-.32229	-.32336

RUN NO. 68 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.901	-2.594	-.01065	34.05585	-.25957	-.19294	-.26952	-.25308
.901	-.462	.00055	34.06262	-.25091	-.18796	-.26451	-.24587
.901	2.041	.001488	34.04075	-.23914	-.18258	-.26258	-.23053
.901	4.203	.00645	34.01426	-.23070	-.17788	-.26256	-.23354
.901	6.566	.00592	34.02652	-.23095	-.17254	-.25993	-.22784
.901	8.568	.00507	34.04644	-.23623	-.17321	-.25085	-.22341
.901	11.089	.00378	34.04644	-.20241	-.18618	-.24843	-.22793
.901	13.571	.00486	34.04316	-.25558	-.20312	-.27105	-.24568
.901	15.496	.00785	34.01798	-.27191	-.22826	-.29111	-.26713
.899	18.049	.00597	33.99519	-.29210	-.26771	-.29351	-.28849
.899	20.091	.01314	34.01272	-.32842	-.31589	-.33462	-.33254
.901	22.161	.00432	34.04250	-.37882	-.37235	-.40224	-.38699

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## LA51 TABULATED SOURCE DATA

PAGE 139

LARC8TP-684 (LA-51) (B2F1M1) (W1E1S2) (V1)

(PHV024)

## PARAMETRIC DATA

BETA	=	.000	ELEVTR =	-10.000
AIRON	=	.000	SOFLAP =	-11.700
SPDRK	=	.000		

RUN NO. 67 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.979	-2.455	-.00753	27.65136	-.38324	-.34152	-.36010	-.35352
.979	-.220	.00240	27.65504	-.36611	-.34473	-.35264	-.34498
.980	1.977	.00624	27.68653	-.36742	-.30486	-.34813	-.34035
.981	4.229	.00734	27.69167	-.37734	-.30232	-.35397	-.34280
.980	6.534	.00650	27.68655	-.39326	-.30775	-.37637	-.35664
.980	8.510	.00602	27.66752	-.40494	-.31823	-.39669	-.37125
.979	10.923	.00581	27.65136	-.43382	-.35113	-.42538	-.39881
.979	13.028	.00821	27.65498	-.44813	-.38668	-.43559	-.41532
.978	15.444	.01164	27.61243	-.45521	-.41176	-.43449	-.42796
.977	17.626	.01199	27.59542	-.45404	-.44380	-.45358	-.45012
.982	19.676	.01304	27.71234	-.49581	-.51055	-.52439	-.51401
.979	22.456	.01305	27.87181	-.52323	-.54118	-.55598	

RUN NO. 66 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.497	-.00714	31.65670	-.36647	-.35515	-.37356	-.37817
1.200	-.197	-.00033	31.65700	-.35997	-.34963	-.36400	-.37145
1.201	2.075	.00472	31.67274	-.34795	-.34298	-.35899	-.35539
1.202	4.253	.00286	31.69749	-.34484	-.34378	-.35812	-.34701
1.201	6.563	.00460	31.67263	-.34840	-.34916	-.35861	-.35056
1.202	8.863	.00412	31.68671	-.35669	-.35551	-.36013	-.36701
1.200	10.975	.00315	31.65392	-.36535	-.35581	-.37091	-.37647
1.200	13.357	.00230	31.66087	-.38108	-.37655	-.38542	-.39381
1.199	16.125	.00637	31.65297	-.39505	-.39992	-.40305	-.41071
1.200	17.753	.00822	31.66950	-.40770	-.41441	-.42030	-.42660
1.200	20.077	.00762	31.66115	-.42623	-.43108	-.43559	-.44405
1.199	22.173	.01330	31.64017	-.44444	-.44993	-.45283	-.46258

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## LAS1 TABULATED SOURCE DATA

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LARC/TP-684 (LA-51) (B2F1M1) (WIE1S2) (V1)

(PHW025)

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10.000
AIRDN =	.000	BDFLAP =	-11.700
SPDBRK =	.000		

RUN NO.	111/0						
MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
			at const	-.37915	-.36969	-.39581	-.39325

## LAS1 TABULATED SOURCE DATA

LARC/TP-684 (LA-51) (B2F1M1) (WIE1S2) (V1)

PAGE 131

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10.000
AIRDN =	-.000	BDFLAP =	-11.700
SPDBRK =	-.000		

RUN NO. 115/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.153	5.02997	7.99169	-.17221	-.15665	-.19245	-.16924
.350	-.092	5.03516	7.99616	-.17164	-.15563	-.19129	-.16578
.350	1.963	5.03146	7.98273	-.17426	-.15494	-.19491	-.16850
.350	4.028	5.02238	7.99176	-.17645	-.15383	-.20081	-.16877
.350	6.076	5.02581	7.99170	-.17740	-.15243	-.20082	-.16871
.350	8.144	4.98350	8.00516	-.17569	-.15733	-.20706	-.16845
.350	10.227	4.95452	8.00516	-.17711	-.16531	-.19813	-.16764
.350	12.250	4.91992	8.00964	-.18395	-.17436	-.19520	-.16892
.350	14.358	4.87871	7.99619	-.19474	-.18191	-.20211	-.17082
.350	16.396	4.83594	7.99770	-.20770	-.19902	-.21055	-.17616
.349	18.450	4.77911	7.96035	-.21060	-.21286	-.22033	-.22207
.349	20.536	4.71912	7.96932	-.23586	-.22866	-.23516	-.23114

RUN NO. 114/0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	-2.590	5.14250	29.85563	-.19920	-.19109	-.21543	-.21535
.801	-.339	5.14942	29.79685	-.19829	-.19547	-.20988	-.20758
.801	1.872	5.14865	29.82645	-.19082	-.19529	-.20350	-.20134
.801	4.075	5.13593	29.81089	-.10873	-.19074	-.19554	-.19541
.801	6.332	5.11476	29.84310	-.18172	-.18664	-.18650	-.18652
.801	8.597	5.08444	29.82254	-.18132	-.18776	-.18674	-.18926
.801	10.796	5.05176	29.83196	-.18330	-.19111	-.18745	-.19337
.801	13.032	5.01571	29.81240	-.18796	-.19462	-.18769	-.19374
.801	15.238	4.96786	29.80598	-.20405	-.21964	-.22288	-.22651
.799	17.506	4.91712	29.79494	-.23005	-.23339	-.22378	-.24996
.801	19.770	4.86426	29.80046	-.26492	-.25992	-.25571	-.29974
.799	22.024	4.80573	29.79143	-.31320	-.30824	-.31801	-.34435

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## LA51 TABULATED SOURCE DATA

LARCCTPT-684 (LA-51) (B2F1M1) (WIE1S2) (V1)

PAGE 132

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
AIRRON	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO.	113/ 0						
MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.901	-2.656	5.17315	34.06438	-.24601	-.20765	-.23990	-.25106

## LA51 TABULATED SOURCE DATA

LARCCTPT-684 (LA-51) (B4F1M1) (WIE1S0) (V1)

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## PARAMETRIC DATA

BETA	=	.000	ELEVTR =	.000
AIRRON	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 129/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	-2.290	-.00805	29.85544	-.21959	-.20547	-.22937	-.22379
.801	-.102	.00054	29.90353	-.21362	-.19741	-.22489	-.21895
.801	1.878	.00374	29.86706	-.21033	-.19161	-.22314	-.21580
.801	4.532	.01295	29.86797	-.20541	-.18671	-.22325	-.21241
.801	6.441	.00173	29.87117	-.20526	-.18732	-.22512	-.21251
.802	8.881	-.00029	29.91085	-.20829	-.19623	-.22748	-.21840
.801	10.961	-.00298	29.86095	-.21742	-.20681	-.23374	-.23029
.801	13.068	-.00030	29.88902	-.23434	-.23031	-.24735	-.25254
.801	15.181	.00175	29.87147	-.25889	-.25040	-.27087	-.27879
.801	17.416	.00448	29.88460	-.28321	-.28685	-.29501	-.30533
.801	19.724	.00291	29.82153	-.31983	-.32421	-.32582	-.35091
.801	22.083	-.00026	29.84239	-.38427	-.38560	-.39858	-.41220

RUN NO. 128/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.901	-2.461	-.00615	34.03965	-.23266	-.21901	-.24328	-.23910
.901	-.099	.00361	34.07313	-.21654	-.21187	-.22320	-.22412
.901	2.182	.00522	34.02629	-.21396	-.20358	-.22351	-.22225
.900	4.440	.00580	34.01841	-.21291	-.19988	-.22477	-.22172
.899	6.637	.00602	34.01929	-.22250	-.20351	-.23923	-.22817
.899	8.828	.00603	34.05303	-.24317	-.21870	-.25664	-.24495
.899	11.151	.00529	34.06701	-.26604	-.23455	-.27538	-.26742
.899	13.479	.00774	34.05847	-.28741	-.26594	-.29551	-.29964
.899	15.538	.00939	33.99475	-.30875	-.30245	-.32169	-.32855
.899	17.944	.00778	34.05957	-.3924	-.33640	-.36849	-.36228
.899	20.068	.01080	34.00219	-.38433	-.36725	-.40102	-.39553
.899	22.174	.00546	34.00012	-.44707	-.43236	-.46234	-.44982

## LAS1 TABULATED SOURCE DATA

LARC8TP7-684 (LA-51) (BAF1M1) (ME190) (V1)

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(PHV026)

## PARAMETRIC DATA

BETA = .000  
 AILRDN = .000  
 SPDBRK = .000

RUN NO. 127 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.980	-2.445	-.00709	36.87592	-.39783	-.34746	-.42558	-.39665
.980	-.153	.00007	36.88616	-.39542	-.34093	-.41482	-.38856
.980	2.298	.010795	36.89568	-.39242	-.33877	-.40765	-.38373
.979	4.418	.010865	36.88612	-.38832	-.33591	-.40082	-.37862
.979	6.728	.010935	36.86052	-.39718	-.38848	-.40722	-.38348
.979	8.929	.010758	36.87294	-.41339	-.34519	-.41698	-.40087
.979	11.501	.010813	36.85388	-.44421	-.38174	-.45123	-.43354
.982	13.614	.011380	36.85951	-.48441	-.43166	-.49073	-.47781
.980	15.942	.011486	36.86324	-.51209	-.46510	-.51971	-.50408
.980	18.390	.010642	36.91143	-.53937	-.51877	-.54470	-.53626
.980	20.489	.011723	36.87589	-.55812	-.56577	-.57269	-.57112
.978	22.783	.011779	36.82527	-.61127	-.59153	-.60814	-.61551

RUN NO. 126 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.506	-.01312	42.19591	-.35652	-.34385	-.35752	-.35153
1.201	-.157	-.01121	42.19136	-.34435	-.32827	-.35160	-.34490
1.201	2.253	.01357	42.20101	-.33656	-.31874	-.34604	-.33642
1.200	4.546	.00163	42.19072	-.34054	-.32578	-.34254	-.33479
1.201	6.976	.010231	42.18701	-.35005	-.34142	-.34491	-.34534
1.200	9.131	.010054	42.18329	-.36276	-.35166	-.35467	-.35988
1.199	11.454	.00007	42.17678	-.37617	-.37051	-.37562	-.36516
1.201	13.941	-.00034	42.26660	-.39184	-.39436	-.39776	-.40689
1.200	16.201	.00025	42.210593	-.41418	-.41634	-.42123	-.42208
1.199	18.438	.00012	42.17092	-.44386	-.44598	-.45336	-.45293
1.198	20.756	.00032	42.15239	-.47459	-.47693	-.48075	-.51164
1.200	22.982	-.00032	42.19396	-.49501	-.49762	-.50568	-.51202

LA51 TABULATED SOURCE DATA  
LARC8TP1-684 (LA-51) (84F1M1) (W1E15D) (V1)

(PHYD27)

## PARAMETRIC DATA

RUN NO.	95 / 0	MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4	BETA = .000	ELEVTR = -10,000
										ATLON = .000	BCFLAP = -11,700
										SPDBRK = .000	
(PHYD27)											
RUN NO.	94 / 0	MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4		
.351	-2.084	-.00399	8.03652	-.17604	-.14692	-.18274	-.18530				
.351	-.067	-.00293	8.04546	-.17492	-.14783	-.18207	-.18325				
.351	1.940	-.00099	8.04098	-.17361	-.14418	-.18264	-.17912				
.351	3.976	-.00131	8.03442	-.17192	-.14394	-.18607	-.17650				
.351	6.063	-.00104	8.03098	-.17173	-.14045	-.19480	-.17726				
.351	8.083	-.00391	8.04547	-.17023	-.14317	-.19890	-.17903				
.352	10.162	-.00200	8.06340	-.16986	-.14797	-.19567	-.18033				
.352	12.278	-.00219	8.07235	-.17341	-.15719	-.19173	-.16449				
.351	14.314	-.00140	8.05692	-.18024	-.17272	-.19484	-.19365				
.351	16.299	-.00145	8.04549	-.18709	-.18791	-.20054	-.20190				
.350	18.902	-.00010	8.01068	-.20271	-.21472	-.21456	-.22357				
.350	20.417	.05073	8.01067	-.22200	-.23629	-.22914	-.23165				
(PHYD27)											
RUN NO.	94 / 0	MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4		
.801	-2.448	-.01354	29.85563	-.20785	-.17733	-.20598	-.19966				
.802	-.319	-.00323	29.90111	-.19756	-.17420	-.21657	-.19712				
.801	1.938	-.00124	29.85151	-.19319	-.16831	-.20651	-.19377				
.801	4.281	-.00012	29.87517	-.18876	-.16467	-.20736	-.19199				
.801	6.443	-.00106	29.86464	-.18718	-.16448	-.21957	-.19193				
.801	8.435	-.00141	29.86174	-.18745	-.16788	-.21958	-.19283				
.802	10.768	-.00226	29.89419	-.19554	-.17525	-.21851	-.19692				
.801	12.945	-.00115	29.80598	-.19762	-.18879	-.21019	-.20613				
.801	15.181	-.00026	29.83547	-.21133	-.21151	-.22185	-.22245				
.801	17.244	.00167	29.82875	-.22988	-.23669	-.24308	-.25044				
.801	19.548	.00129	29.83226	-.26445	-.27663	-.26839	-.27735				
.801	21.768	-.00338	29.86876	-.31677	-.32987	-.32160	-.32141				

## LASI TABULATED SOURCE DATA

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LARC8TP1-684 (LA-51) (B4F1M1) (WIE1SD) (V1)

(PHV027)

## PARAMETRIC DATA

BETA =	.000	ELEVTR =	-10.000
AIRDN =	.000	BDFLAP =	-11.700
SFDBRK =	.000		

RUN NO. 93 / 0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.900	-2.619	-.01376	34.01887	-.24595	-.19758	-.26240	-.24252
.900	-.219	-.00346	34.03068	-.24211	-.19520	-.25977	-.23978
.899	2.034	.001223	33.97813	-.2361	-.18865	-.25397	-.23186
.899	4.282	.001357	33.97025	-.22945	-.18351	-.25281	-.22406
.899	6.538	.001125	34.02587	-.23196	-.18135	-.25958	-.22547
.899	8.733	-.00154	33.99083	-.23663	-.17921	-.26737	-.23056
.899	10.993	.00079	33.99981	-.24786	-.18776	-.26531	-.23591
.899	13.325	.000539	33.99609	-.27237	-.21050	-.27353	-.23317
.899	15.458	.000543	33.99894	-.28619	-.23883	-.29120	-.26010
.899	17.727	.00744	33.99566	-.31159	-.26908	-.30118	-.30068
.899	19.988	.01182	33.96388	-.34603	-.30654	-.33756	-.32894
.899	22.038	.00609	33.98842	-.38600	-.37207	-.38844	-.37632

RUN NO. 92 / 0

MACH	ALPHA	BETA	Q(KPA)	CP1	CP2	CP3	CP4
.979	-2.322	-.00898	27.62578	-.39699	-.34063	-.37105	-.36431
.980	-.230	-.00124	27.66619	-.3801	-.31876	-.36347	-.35784
.980	1.939	.00416	27.65659	-.38793	-.31220	-.36507	-.35577
.981	4.329	.00363	27.65292	-.39642	-.310961	-.37321	-.36174
.981	6.456	.00461	27.65877	-.41007	-.31703	-.39316	-.37038
.979	8.666	.00279	27.63607	-.42270	-.32854	-.41933	-.38793
.979	10.120	.00277	27.63380	-.44956	-.35980	-.42279	-.41214
.978	13.068	.00522	27.61963	-.47001	-.38348	-.45463	-.42846
.977	15.399	.00038	27.59716	-.48152	-.41147	-.46928	-.44943
.977	17.422	.00768	27.59265	-.49174	-.43854	-.48168	-.46593
.983	19.704	.00479	27.79127	-.52391	-.52392	-.53119	-.54513
.981	21.953	.00033	27.67271	-.54548	-.55097	-.55611	-.56542

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## LAS1 TABULATED SOURCE DATA

PAGE 138

LARC8TFT-684 (LA-51) (B4F1M1) (M1E1SD) (V1)

(FHV027)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
ATLRON	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 91 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.200	-2.450	-.01308	31.62042	-.37044	-.35883	-.38761	-.39113
1.200	-1.07	-.00279	31.63972	-.36140	-.35433	-.37181	-.37427
1.200	2.028	.00050	31.63898	-.34986	-.36699	-.36361	-.35173
1.200	4.242	.00162	31.64037	-.35018	-.34731	-.36322	-.34433
1.200	6.049	.00095	31.64417	-.35425	-.35425	-.37186	-.35010
1.200	9.377	.00135	31.63007	-.35919	-.35664	-.37186	-.35296
1.200	11.625	.00167	31.62839	-.37623	-.37158	-.38554	-.38206
1.199	13.299	.00229	31.61742	-.39886	-.39910	-.40422	-.40784
1.198	15.766	.00445	31.61337	-.42072	-.42205	-.42308	-.43116
1.198	17.844	.00483	31.60671	-.43256	-.43372	-.43776	-.44168
1.198	20.224	.00718	31.60004	-.44465	-.45145	-.46123	
1.199	22.150	.00758	31.63227	-.46693	-.46693	-.48146	-.47892

LARC8TFT-684 (LA-51) (B4F1M1) (M1E1SD) (V1)

(FHV028)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
ATLRON	=	.000	BDFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 100 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.350	-2.048	5.03085	8.01412	-.17324	-.15746	-.19401	-.18882
.351	.046	5.03495	8.02757	-.17295	-.15907	-.19463	-.18897
.351	2.612	5.03053	8.05445	-.17566	-.15762	-.20006	-.19069
.351	4.273	5.02154	8.05894	-.17697	-.15474	-.20509	-.18872
.351	6.208	5.00596	8.04551	-.17585	-.14987	-.21057	-.18886
.351	8.199	4.998275	8.03207	-.17523	-.15198	-.21747	-.18901
.351	10.279	4.95440	8.04552	-.17304	-.15779	-.21337	-.18949
.351	12.346	4.92000	8.02760	-.17295	-.16187	-.20541	-.18857
.351	14.299	4.88181	8.04104	-.17595	-.17233	-.19852	-.19101
.351	16.819	4.82234	8.03656	-.18261	-.18783	-.20471	-.20372
.351	18.372	4.77765	8.02761	-.19594	-.19631	-.21099	-.21564
.351	21.577	4.68776	8.02312	-.22233	-.22749	-.23411	-.23358

## LA51 TABULATED SOURCE DATA

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LARC8PPT-684 (LA-51) (B4F1M1) (WIE1SD) (V1)

(PHN028)

## PARAMETRIC DATA

BETA =	5.000	ELEVTR =	-10.000
ATLRON =	.000	BDFLAP =	-11.700
SPDBRK =	.000		

RUN NO. 99 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.801	.22.249	5.14426	29.86536	-19852	-19163	-21597	-20706
.801	-.193	5.14822	29.88460	-19828	-19415	-21270	-20556
.801	1.902	5.14654	29.89864	-19630	-19493	-20694	-20145
.801	4.050	5.13545	29.87268	-19015	-18895	-19804	-19532
.800	6.391	5.11490	29.84072	-17944	-16369	-18496	-18754
.800	8.653	5.08734	29.84611	-18071	-18671	-18585	-19233
.801	11.191	5.04653	29.86887	-18576	-19161	-19021	-19665
.800	13.083	5.01170	29.82304	-19283	-20130	-19506	-20065
.800	15.175	4.97024	29.85253	-20717	-21180	-20623	-21180
.800	18.651	4.88892	29.85313	-23290	-24257	-23633	-24400
.799	20.045	4.84698	29.80125	-25944	-26814	-26233	-25758
.800	21.916	4.77989	29.82976	-30427	-31113	-31355	

RUN NO. 98 / 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.901	-2.576	5.17482	34.05388	-25101	-21074	-25385	-25246
.901	-.281	5.18375	34.03703	-24660	-21437	-24756	-24740
.901	1.946	5.18070	34.04250	-24346	-21125	-24388	-24185
.901	4.281	5.16798	34.07225	-23762	-20183	-23925	-23557
.901	6.696	5.14313	34.02367	-23507	-18845	-26424	-24984
.901	8.848	5.11374	34.07290	-23551	-18465	-29167	-24736
.900	11.524	5.08648	34.03790	-24604	-19751	-28159	-24188
.901	13.846	5.02480	34.02739	-26227	-24719	-27383	-25155
.899	15.613	4.98794	33.99717	-28101	-24098	-27716	-26647
.899	17.754	4.92695	34.01688	-30331	-27866	-29668	-28884
.899	20.037	4.85637	34.01141	-34566	-33471	-35069	-33405
.899	22.272	4.77776	34.00132	-39428	-38543	-39924	-38551

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LARC81PT-684 (LA-51) (B4F1M1) (WIE1SD) (V1)

(PHV026)

## PARAMETRIC DATA

BETA	=	5.000	ELEVTR =	-10.000
AILRON	=	.000	BCFLAP =	-11.700
SPDBRK	=	.000		

RUN NO. 97/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
.978	-2.397	5.14725	27.62211	-.39213	-.34906	-.36931	-.36295
.979	-.257	5.15432	27.65211	-.39489	-.34521	-.38534	-.37852
.981	2.075	5.15086	27.71454	-.39792	-.34928	-.39368	-.38225
.981	4.295	5.13557	27.69256	-.39822	-.34684	-.40226	-.38661
.981	6.469	5.11372	27.69922	-.40421	-.33982	-.41381	-.39380
.980	8.907	5.08076	27.67778	-.42577	-.33796	-.43035	-.40596
.979	10.915	5.04540	27.64847	-.43580	-.36397	-.44687	-.42434
.979	13.343	5.00353	27.64182	-.45242	-.38457	-.46823	-.43724
.978	15.396	4.96338	27.63018	-.45266	-.39767	-.46738	-.44033
.979	17.712	4.90690	27.64255	-.46276	-.44424	-.45844	-.45258
.979	19.892	4.84151	27.64840	-.50477	-.50290	-.49833	-.48932
.980	22.108	4.77346	27.69383	-.54494	-.53992	-.53479	-.52886

RUN NO. 96/ 0

MACH	ALPHA	BETA	Q (KPA)	CP1	CP2	CP3	CP4
1.199	-2.375	5.16956	31.62708	-.38011	-.37122	-.39334	-.39073
1.199	-.218	5.17214	31.64017	-.37756	-.36774	-.38805	-.38770
1.200	2.203	5.16367	31.64770	-.36767	-.35860	-.37544	-.37891
1.200	4.427	5.14573	31.64631	-.36556	-.35283	-.37108	-.37325
1.200	6.486	5.12317	31.64185	-.37410	-.36169	-.37473	-.37143
1.199	8.788	5.09329	31.64259	-.38611	-.37021	-.38471	-.38072
1.199	11.404	5.05107	31.63022	-.40045	-.37559	-.39760	-.39818
1.199	13.617	5.01507	31.64017	-.40874	-.39012	-.41313	-.39073
1.199	15.598	4.97428	31.63951	-.41687	-.40285	-.42469	-.40112
1.200	17.700	4.92297	31.64807	-.42544	-.42241	-.43586	-.41145
1.199	19.923	4.86056	31.63637	-.44273	-.44341	-.45074	-.43561
1.199	22.209	4.79168	31.63637	-.46891	-.46546	-.46311	-.45932